THIRD QUARTER 1992

**METALLURGICAL LABORATORY
HAZARDOUS WASTE MANAGEMENT
FACILITY GROUNDWATER
MONITORING REPORT (U)**

KEY WORDS

AMB wells
tetrachloroethylene
total alpha-emitting radium
total organic halogens
trichloroethylene

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Abstract

During third quarter 1992, samples from 18 groundwater monitoring wells of the AMB series at the Metallurgical Laboratory Hazardous Waste Management Facility were analyzed for certain heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. Eight parameters exceeded the U.S. Environmental Protection Agency Primary Drinking Water Standards (PDWS) and the Savannah River Site Flag 2 criteria during the quarter.

Tetrachloroethylene exceeded the PDWS in wells AMB 4A, 5, and 7A; trichloroethylene was elevated in wells AMB 4A, 4B, 4D, 5, 6, and 7A; and total alpha-emitting radium (radium-224 and radium-226) activity exceeded the PDWS in wells AMB 5 and 10B. Total organic halogens exceeded the Flag 2 criterion in wells AMB 5 and 7A; manganese exceeded the Flag 2 criterion in wells AMB 4D and 10DD; iron exceeded the Flag 2 criterion in well AMB 10DD; pH exceeded the Flag 2 criterion for alkalinity in wells AMB 10A and 13AR; and specific conductance exceeded the Flag 2 criterion in well AMB 10A.

Elevated constituents were not found in the upgradient water-table well AMB 11D or in downgradient water-table wells AMB 7, 8D, 9D, 10D, and 12D. Downgradient water-table well AMB 4D contained elevated levels of manganese and trichloroethylene; downgradient water-table well AMB 5 contained elevated levels of tetrachloroethylene, total organic halogens, total alpha-emitting radium, and trichloroethylene; and downgradient water-table well AMB 6 contained an elevated concentration of trichloroethylene. Downgradient Congaree well AMB 13AR contained an elevated alkaline pH level.

Contents

	Page
Abstract	iii
List of Figures	vii
List of Tables	vii
Executive Summary	1
Introduction	2
Discussion	3
Groundwater Monitoring Data	3
Analytical Results Exceeding Standards	4
Time Series Plots	4
Groundwater Gradient, Flow Direction, and Flow Rates	5
Upgradient vs. Downgradient Results	6
Quality Control Results	7
Conclusions	8
Errata	9
References Cited	11
Appendix A – Primary Drinking Water Standards	A-1
Appendix B – Flagging Criteria	B-1
Appendix C – Figures	C-1
Appendix D – Groundwater Monitoring Results Tables	D-1
Appendix E – Data Quality/Useability Assessment	E-1
Appendix F – Time Series Plots	F-1
Appendix G – Hydrographs	G-1
Appendix H – Water Elevation Contour Maps	H-1

List of Figures

	Page
1. Location of the Metallurgical Laboratory HWMF at the Savannah River Site	C-2
2. Location of the Metallurgical Laboratory HWMF in A and M Areas	C-3
3. Water-Elevation Contour Map of the Water Table at the Metallurgical Laboratory HWMF and Locations of the Water-Table Wells	C-4
4. Potentiometric Surface Map of the Upper Section of the Congaree Aquifer at the Metallurgical Laboratory HWMF and Locations of Wells that Monitor the Upper Section of the Congaree	C-5
5. Potentiometric Surface Map of the Lower Section of the Congaree Aquifer at the Metallurgical Laboratory HWMF and Locations of Wells that Monitor the Lower Section of the Congaree	C-6
6. Water-Elevation Contour Map of the Water Table in A and M Areas	C-7

List of Tables

	Page
1. Constituents Exceeding the Primary Drinking Water Standards	D-4
2. Constituents Exceeding Half the Primary Drinking Water Standards or Other Flag 1 or Flag 2 Criteria	D-5
3. Groundwater Monitoring Results for Individual Wells	D-6

Executive Summary

The monitoring wells at the Metallurgical Laboratory Hazardous Waste Management Facility (Met Lab HWMF) are sampled quarterly as part of the Savannah River Site (SRS) Groundwater Monitoring Program to comply with Section III of the Natural Resources Defense Council et al. Consent Decree of May 1988.

During third quarter 1992, 18 wells were monitored at the facility. Nine wells monitor the water-table unit (AMB 4D, 5, 6, 7, 8D, 9D, 10D, 11D, and 12D); eight wells monitor the upper and lower sections of the Congaree aquifer (AMB 4A, 4B, 7A, 7B, 10A, 10B, 11B, and 13AR); and well AMB 10DD monitors a perched groundwater zone beneath the facility. Samples from these wells were analyzed for alkalinity, herbicides, major ions, pesticides, pH, radionuclides, specific conductance, total dissolved solids, total organic carbon, total organic halogens, toxic metals, volatile organic compounds, and other constituents. This report describes the results that exceeded the U.S. Environmental Protection Agency Primary Drinking Water Standards (PDWS) and the SRS flagging criteria.

Tetrachloroethylene exceeded the PDWS in wells AMB 4A, 5, and 7A. Trichloroethylene was elevated in wells AMB 4A, 4B, 4D, 5, 6, and 7A. The highest tetrachloroethylene and trichloroethylene values, 56 and 634 $\mu\text{g/L}$, respectively, were found in well AMB 4A, which monitors the lower section of the Congaree. Total alpha-emitting radium activity exceeded the PDWS in wells AMB 5 and 10B, with the higher activity in well AMB 10B (upper section of the Congaree) at $8.9\text{E}+00$ pCi/L.

Total organic halogens exceeded the Flag 2 criterion in wells AMB 5 and 7A, with a maximum value of 164 $\mu\text{g/L}$ in well AMB 7A. Manganese exceeded the Flag 2 criterion in wells AMB 4D and 10DD, with a maximum concentration of 322 $\mu\text{g/L}$ in well AMB 10DD; iron exceeded the Flag 2 criterion in well AMB 10DD at 6,460 $\mu\text{g/L}$; pH exceeded the alkaline Flag 2 criterion in wells AMB 10A and 13AR; and specific conductance exceeded the Flag 2 criterion in well AMB 10A.

Elevated constituents were not found in the upgradient water-table well AMB 11D or in downgradient water-table wells AMB 7, 8D, 9D, 10D, and 12D. Downgradient water-table well AMB 4D contained elevated levels of manganese and trichloroethylene; downgradient water-table well AMB 5 contained elevated levels of tetrachloroethylene, total organic halogens, total alpha-emitting radium, and trichloroethylene; and downgradient water-table well AMB 6 contained an elevated concentration of trichloroethylene. Downgradient Congaree well AMB 13AR contained an elevated alkaline pH level.

The flow rate estimate for groundwater in the water-table unit beneath the Met Lab HWMF is 0.38 ft/day or 140 ft/yr, and the flow rate estimate for groundwater in the upper section of the Congaree is 0.01 ft/day or 3.7 ft/yr. The horizontal gradient in the lower section of the Congaree was too low to calculate reliably the flow rate in this hydrostratigraphic unit.

Introduction

The Metallurgical Laboratory Hazardous Waste Management Facility (Met Lab HWMF) is located in the eastern portion of A Area at the Savannah River Site (SRS). The facility consists of the process sewer line leading to the Metallurgical Laboratory Basin, the Metallurgical Laboratory Basin, the drainage outfall to the nearby Carolina bay, and the Carolina bay. The basin received waste water effluent from the Metallurgical Laboratory Building from 1956 until 1985. Waste water released to the basin consisted of laboratory wastes from metallographic sample preparation and corrosion testing of stainless steel and nickel-based alloys. The quantity of waste water discharged to the basin was small, averaging approximately 1,000 gallons/day (Heffner and Exploration Resources, 1991).

The Met Lab HWMF, named in Section III of the Natural Resources Defense Council et al. Consent Decree (May 26, 1988), is subject to the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA). The Environmental Restoration Department at SRS provides a quarterly report describing the results of the assessment monitoring at the Met Lab HWMF to meet the requirements of the South Carolina Hazardous Waste Management Regulations (SCDHEC, 1990).

Wells AMB 4D, 5, 6, 7, 8D, 9D, 10D, 11D, and 12D monitor the water-table unit; wells AMB 4B, 7B, 10B, and 11B monitor the upper section of the Congaree aquifer; wells AMB 4A, 7A, 10A, and 13AR monitor the lower section of the Congaree aquifer; and well AMB 10DD monitors a perched groundwater zone beneath the Met Lab HWMF. These 18 wells are sampled quarterly, and the results are reported to the South Carolina Department of Health and Environmental Control (SCDHEC). The wells that monitor the upper and lower sections of the Congaree aquifer were proposed for the facility in association with the RCRA Part B Post-Closure Care Permit Application (WSRC, 1991) and the Groundwater Quality Assessment Plan (Jerome, 1990) and were installed and monitored for the first time during third quarter 1991.

Discussion

Groundwater Monitoring Data

Eighteen wells were sampled at the Met Lab HWMF during third quarter 1992 as part of the SRS Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) Groundwater Monitoring Program. The samples were analyzed for alkalinity, herbicides, major ions, pesticides, pH, radionuclides, specific conductance, total dissolved solids, total organic carbon, total organic halogens, toxic metals, volatile organic compounds, and other constituents. The laboratory that conducted the analyses was certified by SCDHEC to analyze for these specific parameters. This report describes monitoring results that exceeded the U.S. Environmental Protection Agency Primary Drinking Water Standards (PDWS) (Appendix A) and the SRS flagging criteria (Appendix B).

In general, the flagging criteria established by EPD/EMS for identifying constituents in high concentrations in groundwater are as follows:

- Flag 2 criteria are based on the PDWS. For constituents that do not have a PDWS, the criteria are based on the Secondary Drinking Water Standard (SDWS) or 10 times the method detection limit (MDL) as described in Appendix B. Constituent levels that equal or exceed Flag 2 criteria are described as *elevated* in this report.
- Flag 1 criteria are based on half the PDWS. For constituents that do not have a PDWS, the criteria are based on half the SDWS or 5 times the MDL as described in Appendix B. Flag 1 levels may reflect analytical error; however, this level may indicate the initial detection of a contaminant. Thus, constituents exceeding Flag 1 criteria are included in this report and are described as *slightly elevated*.
- 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.

Appendix C presents illustrations of the monitored waste management unit at SRS (Figure 1), the location of the Met Lab HWMF within A and M areas (Figure 2), the flow directions of the groundwater beneath the facility (Figures 3, 4, and 5), and a water-elevation contour map of the water table in A and M areas (Figure 6). Monitoring results and analyses that exceeded holding times are presented in Appendix D; data quality/useability assessment information is in Appendix E; time series plots for pH, specific conductance, tetrachloroethylene, total organic carbon, total organic halogens, total alpha-emitting radium (radium-224 and radium-226), and trichloroethylene are presented in Appendix F; hydrographs for the wells are in Appendix G; and large-scale water-elevation and potentiometric maps of the water table and the upper and lower sections of the Congaree hydrostratigraphic unit are in Appendix H.

Analytical Results Exceeding Standards

Results for analytes that exceeded the PDWS (see Appendix A) during third quarter 1992 are summarized in Table 1 (Appendix D). Tetrachloroethylene exceeded the PDWS in wells AMB 4A, 5, and 7A. Trichloroethylene was elevated in wells AMB 4A, 4B, 4D, 5, 6, and 7A. The highest tetrachloroethylene and trichloroethylene values, 56 and 634 $\mu\text{g/L}$, respectively, were found in well AMB 4A, which monitors the lower section of the Congaree. Total alpha-emitting radium activity exceeded the PDWS in wells AMB 5 and 10B, with the higher activity in well AMB 10B (upper section of the Congaree) at $8.9\text{E}+00$ pCi/L.

Constituents that exceeded half the PDWS or other Flag 1 or Flag 2 criteria (see Appendix B) during third quarter 1992 are summarized in Table 2 (Appendix D). Total organic halogens exceeded the Flag 2 criterion in wells AMB 5 and 7A, with a maximum value of 164 $\mu\text{g/L}$ in well AMB 7A. Manganese exceeded the Flag 2 criterion in wells AMB 4D and 10DD, with a maximum concentration of 322 $\mu\text{g/L}$ in well AMB 10DD; iron exceeded the Flag 2 criterion in well AMB 10DD at 6,460 $\mu\text{g/L}$; pH exceeded the alkaline Flag 2 criterion in wells AMB 10A and 13AR; and specific conductance exceeded the Flag 2 criterion in well AMB 10A.

All results for individual wells are presented in Table 3 (Appendix D). Table 3 also indicates those analyses that exceeded holding times. Resampling of monitoring wells where sample holding times have been exceeded will be addressed by EPD/EMS.

The standard practice at SRS has been to purge a minimum of four well volumes from each well and ensure that the field parameters have stabilized before samples are collected. A well that goes dry before purging is completed is allowed to recover and is sampled without purging within 24 hours. Table 3 (Appendix D) lists the amount of water purged from each well. During third quarter 1992, wells AMB 7, 10A, and 13AR did not yield four well volumes prior to sampling. Well AMB 7 has a history of low yield and recovery. Well AMB 4 was abandoned September 30, 1991, because it was close to the edge of the basin and would be covered by the cap during basin closure.

Time Series Plots

Time series plots of field pH, field specific conductance, tetrachloroethylene, total alpha-emitting radium, total organic carbon, total organic halogens, and trichloroethylene were constructed for wells AMB 4A, 4B, 4D, 5, 6, 7, 7A, 7B, 8D, 9D, 10A, 10B, 10D, 10DD, 11B, 11D, 12D, and 13AR (Appendix F). Trends for these indicator parameters are as follows:

pH: Field pH values for most of the AMB wells have ranged between approximately 5 and 7 since sampling began. The pH in well AMB 11D has usually fluctuated around neutral, but occasionally it has risen to greater than pH 9. However, the pH level in well AMB 10A has consistently exceeded the alkaline Flag 2 criterion of pH 10, and the pH level in well AMB 13AR exceeded the alkaline Flag 2 criterion during third quarter 1992.

Specific conductance: Field specific conductance for well AMB 10A has consistently exceeded the Flag 2 criterion of 500 $\mu\text{S/cm}$ since sampling began. Specific conductance has ranged between approximately 25 and 150 $\mu\text{S/cm}$ for most of the remaining AMB

wells. The specific conductance in well AMB 7 was as high as approximately 300 $\mu\text{S}/\text{cm}$ during mid-1989; however, this value has declined with time and was less than 100 $\mu\text{S}/\text{cm}$ during third quarter 1992.

Tetrachloroethylene: Tetrachloroethylene concentrations for most of the AMB wells have been near or below the PDWS of 5 $\mu\text{g}/\text{L}$ or less than the MDL since sampling began. Concentrations in well AMB 5 have usually been near or slightly above the PDWS; concentrations in wells AMB 4A and 7A have consistently exceeded the PDWS.

Total alpha-emitting radium: Most of the AMB wells have exhibited total alpha-emitting radium activities below the PDWS of 5E+00 pCi/L since sampling began. Well AMB 5 has exceeded this standard for several quarters, including third quarter 1992. Total alpha-emitting radium also exceeded the PDWS in well AMB 10B during third quarter 1992.

Total organic carbon: Total organic carbon concentrations in the AMB well series have been consistently less than the Flag 2 criterion of 10,000 $\mu\text{g}/\text{L}$ or below the MDL since shortly after sampling began.

Total organic halogens: Most of the AMB wells have exhibited total organic halogen concentrations less than the Flag 2 criterion of 50 $\mu\text{g}/\text{L}$ since sampling began. However, concentrations in wells AMB 4A, 5, and 7A have exceeded this standard during most quarters that samples were analyzed.

Trichloroethylene: Trichloroethylene concentrations in wells AMB 4A, 4D, 5, and 7A have consistently exceeded the PDWS of 5 $\mu\text{g}/\text{L}$ since sampling began. The remaining AMB wells have consistently exhibited concentrations less than the PDWS or the MDL except for well AMB 8D, which exhibited elevated trichloroethylene concentrations during first quarter 1990 and first quarter 1991.

Groundwater Gradient, Flow Direction, and Flow Rates

The water-table unit beneath the Met Lab HWMF slopes to the northwest and has an average gradient of 0.0039. Water-elevation contours of the water-table unit and the northwesterly groundwater flow direction beneath the facility are shown in Figure 3 (Appendix C), and hydrographs for the wells are presented in Appendix G. Historically, the horizontal groundwater flow in the upper and lower sections of the Congaree aquifer is to the south (Figures 4 and 5, Appendix C). During third quarter 1992, horizontal flow in the upper section of the Congaree was to the southwest; the horizontal gradient in the lower section of the Congaree was too low to calculate horizontal flow direction reliably. Flow directions in this report are presented according to SRS grid coordinates.

The groundwater flow rate beneath the Met Lab HWMF 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 water-table unit, the upper section of the Congaree, and the lower section of the Congaree are 27, 1.05, and 1.48 ft/day, respectively (WSRC, 1991). The effective porosity values estimated for the water-table unit, the upper section of the Congaree, and the lower section of the Congaree are 20%, 30%, and 30%, respectively. The value dh is the difference in head, and dl is the length of the flow path. Flow rate estimations 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 estimations only.

The flow rate estimate for groundwater in the water-table unit beneath the Met Lab HWMF is as follows (Figure 3, Appendix C):

$$\frac{27}{0.20} \times \frac{2}{710} = 0.38 \text{ ft/day}$$

$$0.38 \text{ ft/day} \times 365 \text{ days} = 140 \text{ ft/yr}$$

The flow rate estimate for groundwater in the upper section of the Congaree beneath the Met Lab HWMF is as follows (Figure 4, Appendix C):

$$\frac{1.05}{0.30} \times \frac{1}{340} = 0.01 \text{ ft/day}$$

$$0.01 \text{ ft/day} \times 365 \text{ days} = 3.7 \text{ ft/yr}$$

The flow rate estimate for groundwater in the lower section of the Congaree beneath the Met Lab HWMF was not calculated for third quarter 1992 because of the low horizontal gradient.

Upgradient vs. Downgradient Results

Well AMB 11D is the designated upgradient water-table well relative to the Met Lab HWMF. During third quarter 1992, no elevated constituents occurred in the upgradient well or in downgradient wells AMB 7, 8D, 9D, 10D, and 12D. Downgradient well AMB 4D contained elevated levels of manganese and trichloroethylene; downgradient well AMB 5 contained elevated levels of tetrachloroethylene, total organic halogens, total alpha-emitting radium, and trichloroethylene; and downgradient well AMB 6 contained an elevated concentration of trichloroethylene.

No wells have been designated as upgradient wells in the Congaree. Well AMB 11B is the downgradient well in the upper section of the Congaree, and well AMB 13AR is the downgradient well in the lower section of the Congaree. Well AMB 13AR contained an elevated alkaline pH level.

Quality Control Results

Replicate analysis of an AMB well sample was not performed during third quarter 1992.

Conclusions

During third quarter 1992, tetrachloroethylene exceeded the PDWS in wells AMB 4A, 5, and 7A. Trichloroethylene was elevated in wells AMB 4A, 4B, 4D, 5, 6, and 7A. The highest tetrachloroethylene and trichloroethylene values, 56 and 634 $\mu\text{g/L}$, respectively, were found in well AMB 4A, which monitors the lower section of the Congaree. Total alpha-emitting radium activity exceeded the PDWS in wells AMB 5 and 10B, with the higher activity in well AMB 10B (upper section of the Congaree) at $8.9\text{E}+00$ pCi/L.

Total organic halogens exceeded the Flag 2 criterion in wells AMB 5 and 7A, with a maximum value of 164 $\mu\text{g/L}$ in well AMB 7A. Manganese exceeded the Flag 2 criterion in wells AMB 4D and 10DD, with a maximum concentration of 322 $\mu\text{g/L}$ in well AMB 10DD; iron exceeded the Flag 2 criterion in well AMB 10DD at 6,460 $\mu\text{g/L}$; pH exceeded the alkaline Flag 2 criterion in wells AMB 10A and 13AR; and specific conductance exceeded the Flag 2 criterion in well AMB 10A.

Elevated constituents were not found in the upgradient water-table well AMB 11D or in downgradient water-table wells AMB 7, 8D, 9D, 10D, and 12D. Downgradient water-table well AMB 4D contained elevated levels of manganese and trichloroethylene; downgradient water-table well AMB 5 contained elevated levels of tetrachloroethylene, total organic halogens, total alpha-emitting radium, and trichloroethylene; and downgradient water-table well AMB 6 contained an elevated concentration of trichloroethylene. Downgradient Congaree well AMB 13AR contained an elevated alkaline pH level.

The flow rate estimate for groundwater in the water-table unit beneath the Met Lab HWMF is 0.38 ft/day or 140 ft/yr, and the flow rate estimate for groundwater in the upper section of the Congaree is 0.01 ft/day or 3.7 ft/yr. These estimated groundwater flow rates represent the assumed maximum contaminant migration rates. The horizontal gradient in the lower section of the Congaree was too low to calculate reliably the flow rate in this hydrostratigraphic unit.

The RCRA Part B Post-Closure Care Permit Application for the Met Lab HWMF, submitted to SCDHEC on December 16, 1991 (WSRC, 1991), indicates that a small, isolated plume of trichloroethylene and tetrachloroethylene that exists in the water-table unit near the Met Lab HWMF is from the Met Lab Basin. The permit application also indicates that the primary source of the contamination in the deeper units near the Met Lab HWMF is the extensive organic halogens plume resulting from M-Area operations. SRS is addressing the effects of organic halogens near the Met Lab HWMF under the provisions of the corrective action program of the M-Area HWMF Post-Closure Permit (WSRC, 1987).

The source of the total alpha-emitting radium is unknown; however, radium is a naturally occurring radionuclide at SRS, and its presence in groundwater may not necessarily be associated with waste management unit activities.

Errata

Third Quarter 1991:

- Errors in the computer program used to mark analyses that exceed holding times caused a number of analyses to be incorrectly flagged as exceeding holding time.
- The only analyses performed by General Engineering on samples from the AMB well series during third quarter 1991 that exceeded holding times were the following:

Total organic halogen analyses for AMB 9D and 12D

Total phosphates (as P) for AMB 7A, 7B, 10B, and 13AR

Extraction for dioxins and furans for AMB 5, 6, 7, 8D, 9D, 10D, 10DD, and 12D

2-Chloroethyl vinyl ether for AMB 5, 6, 7, 8D, 9D, 10D, 10DD, 11D, 12D
(This analysis was not requested for any of these wells.)

Nitrate as nitrogen analysis for AMB 4, 6, and 7

Fifty-four Appendix IX analyses (all of the volatiles suite and chlorobenzilate from the BNAs) for AMB 9D, which were late by only one day and were reanalyzed due to surrogate failure on the first run

The error in the computer program was corrected prior to the fourth quarter 1991 reporting period.

Fourth Quarter 1991 and 1991 Summary:

- Page D-2, **Holding Time**: The statement concerning holding time for pH is incorrect. The statement should read "South Carolina Department of Health and Environmental Control allows only 15 minutes to elapse between sample collection and analysis for pH. Thus, all laboratory pH analyses exceed holding time."
- The results of analyses performed using EPA Method 900.1 have been incorrectly referred to in the past as total radium results and have been inappropriately evaluated against the drinking water standard for combined radium-226 and radium-228. EPA Method 900.1 should be considered a gross radium alpha screening procedure; it may be used to screen drinking water for the necessity of performing a specific radium-226 analysis, but it gives no indication of the presence or quantity of radium-228 in the sample. This analysis will be referred to in the future as total alpha-emitting radium.

First Quarter 1992:

- Page 6, **Results for Upgradient vs. Downgradient Wells**, paragraph 2, line 1: The first sentence is incorrect; the sentence should read "No wells have been designated as upgradient wells in the Congaree."
- Page 7, paragraph 4, line 4: The sentence should read "These estimated groundwater flow rates represent the assumed maximum contamination migration rates."

Second Quarter 1992:

- Page 6, **Results for Upgradient vs. Downgradient Wells**: The designated upgradient well for the water-table unit is AMB 11D only. The upgradient versus downgradient results should be revised accordingly.
- Page D-3: Well AMB 4A should have a second result for tetrachloroethylene of 12 $\mu\text{g/L}$.

References Cited

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SCDHEC (South Carolina Department of Health and Environmental Control), 1990. **South Carolina Hazardous Waste Management Regulations**; R.61-79.124, .260 through .266, .268, and .270; November 1990. Columbia, SC.

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WSRC (Westinghouse Savannah River Company), 1991. **Application for a Hazardous Waste Part B Post-Closure Care Permit** [Metallurgical Laboratory Hazardous Waste Management Facility], Rev. 1, Dec. 1991. Westinghouse Savannah River Company, Aiken, SC.

Appendix A – Primary Drinking Water Standards

Primary Drinking Water Standards

Analyte	Unit	Level	Status	Reference
Antimony	µg/L	5 ^a	Proposed	EPA, 1990
Arsenic	µg/L	50	Final	CFR, 1991
Barium	µg/L	2,000	Final	CFR, 1991
Benzene	µg/L	5	Final	CFR, 1991
Benzo[<i>a</i>]anthracene	µg/L	0.1	Proposed	EPA, 1990
Benzo[<i>b</i>]fluoranthene	µg/L	0.2	Proposed	EPA, 1990
Benzo[<i>k</i>]fluoranthene	µg/L	0.2	Proposed	EPA, 1990
Benzo[<i>a</i>]pyrene	µg/L	0.2	Proposed	EPA, 1990
Beryllium	µg/L	1	Proposed	EPA, 1990
Bromodichloromethane	µg/L	100 ^b	Final	CFR, 1991
Bromoform	µg/L	100 ^b	Final	CFR, 1991
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	µg/L	7	Proposed	EPA, 1990
Cadmium	µg/L	5	Final	CFR, 1991
Carbon tetrachloride	µg/L	5	Final	CFR, 1991
Chlordane	µg/L	2	Final	CFR, 1991
Chloroethene (Vinyl chloride)	µg/L	2	Final	CFR, 1991
Chloroform	µg/L	100 ^b	Final	CFR, 1991
Chromium	µg/L	100	Final	CFR, 1991
Chrysene	µg/L	0.2	Proposed	EPA, 1990
Copper	µg/L	1,300	Final	CFR, 1991
Cyanide	µg/L	200	Proposed	EPA, 1990
Dibenz[<i>a,h</i>]anthracene	µg/L	0.3	Proposed	EPA, 1990
Dibromochloromethane	µg/L	100 ^b	Final	CFR, 1991
Dibromochloropropane	µg/L	0.2	Final	CFR, 1991
1,2-Dichlorobenzene	µg/L	600	Final	CFR, 1991
1,4-Dichlorobenzene	µg/L	75	Final	CFR, 1991
1,2-Dichloroethane	µg/L	5	Final	CFR, 1991
1,1-Dichloroethylene	µg/L	7	Final	CFR, 1991
cis-1,2-Dichloroethylene	µg/L	70	Final	CFR, 1991
trans-1,2-Dichloroethylene	µg/L	100	Final	CFR, 1991
Dichloromethane (Methylene chloride)	µg/L	5	Proposed	EPA, 1990
2,4-Dichlorophenoxyacetic acid	µg/L	70	Final	CFR, 1991
1,2-Dichloropropane	µg/L	5	Final	CFR, 1991
Endrin	µg/L	0.2	Final	CFR, 1991
Ethylbenzene	µg/L	700	Final	CFR, 1991
Fluoride	µg/L	4,000	Final	CFR, 1991
Gross alpha ^c	pCi/L	1.5E + 01	Final	CFR, 1991
Heptachlor	µg/L	0.4	Final	CFR, 1991
Heptachlor epoxide	µg/L	0.2	Final	CFR, 1991
Hexachlorobenzene	µg/L	1	Proposed	EPA, 1990
Hexachlorocyclopentadiene	µg/L	50	Proposed	EPA, 1990
Lead	µg/L	15	Final	CFR, 1991
Lindane	µg/L	0.2	Final	CFR, 1991
Mercury	µg/L	2	Final	CFR, 1991
Methoxychlor	µg/L	40	Final	CFR, 1991
Nickel	µg/L	100	Proposed	EPA, 1990
Nitrate as nitrogen	µg/L	10,000	Final	CFR, 1991
Nitrate-nitrite as nitrogen	µg/L	10,000	Final	CFR, 1991
Nitrite as nitrogen	µg/L	1,000	Final	CFR, 1991
Nonvolatile beta ^d	pCi/L	5E + 01	Final	EPA, 1977
PCBs ^e	µg/L	0.5	Final	CFR, 1991
Pentachlorophenol	µg/L	1	Final	CFR, 1991
Radium-226 ^f	pCi/L	1.57E + 01	Proposed	EPA, 1991

<u>Analyte</u>	<u>Unit</u>	<u>Level</u>	<u>Status</u>	<u>Reference</u>
Radium-228 ^f	pCi/L	7.85E+00	Proposed	EPA, 1991
Radon-222	pCi/L	3E+02	Proposed	EPA, 1991
Selenium	µg/L	50	Final	CFR, 1991
Silver	µg/L	50	Final	CFR, 1991
Styrene	µg/L	100	Final	CFR, 1991
Sulfate	µg/L	400,000 ^a	Proposed	EPA, 1990
Tetrachloroethylene	µg/L	5	Final	CFR, 1991
Thallium	µg/L	1	Proposed	EPA, 1990
Toluene	µg/L	1,000	Final	CFR, 1991
Total radium ^f (Radium-226 and -228)	pCi/L	5E+00	Final	CFR, 1991
Total trihalomethanes	µg/L	100	Final	CFR, 1991
Toxaphene	µg/L	3	Final	CFR, 1991
2,4,5-TP (Silvex)	µg/L	50	Final	CFR, 1991
1,2,4-Trichlorobenzene	µg/L	9	Proposed	EPA, 1990
1,1,1-Trichloroethane	µg/L	200	Final	CFR, 1991
1,1,2-Trichloroethane	µg/L	5	Proposed	EPA, 1990
Trichloroethylene	µg/L	5	Final	CFR, 1991
Tritium	pCi/mL	2E+01	Final	CFR, 1991
Uranium	µg/L	20	Proposed	EPA, 1991
Uranium alpha activity	pCi/L	3E+01	Proposed	EPA, 1991
Xylenes	µg/L	10,000	Final	CFR, 1991

The following standards for beta- and photon-emitting radionuclides are not per se regulatory maximum contaminant levels. They represent the level at which consumption of 2 liters per day of water containing only one radionuclide would be expected to yield 4 mrem effective dose equivalent per year (ede/yr). See EPA (1977 and 1991) for details.

Antimony-125	pCi/L	3E+02	Final	EPA, 1977
Barium-140	pCi/L	9E+01	Final	EPA, 1977
Beryllium-7	pCi/L	6E+03	Final	EPA, 1977
Carbon-14	pCi/L	2E+03	Final	EPA, 1977
Cerium-141	pCi/L	3E+02	Final	EPA, 1977
Cerium-144	pCi/L	2.61E+02	Proposed	EPA, 1991
Cesium-134	pCi/L	8.13E+02 ^g	Proposed	EPA, 1991
Cesium-137	pCi/L	2E+02	Final	EPA, 1977
Chromium-51	pCi/L	6E+03	Final	EPA, 1977
Cobalt-57	pCi/L	1E+03	Final	EPA, 1977
Cobalt-58	pCi/L	9E+03	Final	EPA, 1977
Cobalt-60	pCi/L	1E+02	Final	EPA, 1977
Europium-154	pCi/L	2E+02	Final	EPA, 1977
Europium-155	pCi/L	6E+02	Final	EPA, 1977
Iodine-129	pCi/L	1E+00	Final	EPA, 1977
Iodine-131	pCi/L	3E+00	Final	EPA, 1977
Iron-55	pCi/L	2E+03	Final	EPA, 1977
Iron-59	pCi/L	2E+02	Final	EPA, 1977
Lanthanum-140	pCi/L	6E+01	Final	EPA, 1977
Manganese-54	pCi/L	3E+02	Final	EPA, 1977
Nickel-59	pCi/L	3E+02	Final	EPA, 1977
Nickel-63	pCi/L	5E+01	Final	EPA, 1977
Niobium-95	pCi/L	3E+02	Final	EPA, 1977
Plutonium-241	pCi/L	6.26E+01	Proposed	EPA, 1991
Potassium-40	pCi/L	3E+02	Proposed	EPA, 1986
Ruthenium-103	pCi/L	2E+02	Final	EPA, 1977
Ruthenium-106	pCi/L	3E+01	Final	EPA, 1977

Analyte	Unit	Level	Status	Reference
Sodium-22	pCi/L	4.66E+02	Proposed	EPA, 1991
Strontium-89	pCi/L	2E+01 ^h	Final	EPA, 1977
Strontium-89/90 ⁱ	pCi/L	8E+00	Final	CFR, 1991
Strontium-90	pCi/L	8E+00	Final	CFR, 1991
Technetium-99	pCi/L	9E+02	Final	EPA, 1977
Thorium-234	pCi/L	4.01E+02	Proposed	EPA, 1991
Tin-113	pCi/L	3E+02	Final	EPA, 1977
Zinc-65	pCi/L	3E+02	Final	EPA, 1977
Zirconium-95	pCi/L	2E+02	Final	EPA, 1977
Zirconium/Niobium-95 ⁱ	pCi/L	2E+02	Final	EPA, 1977

The following standards for alpha-emitting radionuclides are not per se regulatory maximum contaminant levels. They represent the level at which consumption of 2 liters per day of water containing only one radionuclide would be expected to yield a lifetime cancer incidence risk of 1×10^{-4} . See EPA (1991) for details.

Americium-241	pCi/L	6.34E+00	Proposed	EPA, 1991
Americium-243	pCi/L	6.37E+00	Proposed	EPA, 1991
Curium-242	pCi/L	1.33E+02	Proposed	EPA, 1991
Curium-243	pCi/L	8.3E+00	Proposed	EPA, 1991
Curium-244	pCi/L	9.84E+00	Proposed	EPA, 1991
Curium-246	pCi/L	6.27E+00	Proposed	EPA, 1991
Neptunium-237	pCi/L	7.06E+00	Proposed	EPA, 1991
Plutonium-238	pCi/L	7.02E+00	Proposed	EPA, 1991
Plutonium-239	pCi/L	6.21E+01	Proposed	EPA, 1991
Plutonium-239/240 ⁱ	pCi/L	6.21E+01	Proposed	EPA, 1991
Plutonium-240	pCi/L	6.22E+01	Proposed	EPA, 1991
Plutonium-242	pCi/L	6.54E+01	Proposed	EPA, 1991
Thorium-228	pCi/L	1.25E+02	Proposed	EPA, 1991
Thorium-230	pCi/L	7.92E+01	Proposed	EPA, 1991
Thorium-232	pCi/L	8.8E+01	Proposed	EPA, 1991
Uranium-233/234 ⁱ	pCi/L	1.38E+01	Proposed	EPA, 1991
Uranium-234	pCi/L	1.39E+01	Proposed	EPA, 1991
Uranium-235	pCi/L	1.45E+01	Proposed	EPA, 1991
Uranium-238	pCi/L	1.46E+01	Proposed	EPA, 1991

^a This value is the lower of two proposed levels.

^b This value is the drinking water standard for total trihalomethanes (the sum of bromoform, bromodichloromethane, chloroform, and dibromochloromethane).

^c The standard given is for gross alpha including radium-226 but excluding radon and uranium. EPA (1991) has proposed the same value as a gross alpha standard excluding radium-226 as well as uranium and radon-222.

^d This is the screening level above which providers of public drinking water should perform analyses for specific man-made radionuclides. The total dose from all such radionuclides is subject to the 4 mrem ede/yr standard.

^e Analyses were conducted in 1992 for the following: PCB 1016, PCB 1221, PCB 1232, PCB 1242, PCB 1248, PCB 1254, and PCB 1260.

^f The standard currently in effect for radium is that for total radium (as radium-226 plus radium-228). The values used in this document for the individual radionuclides, while higher, are lower than a proposed standard (EPA, 1991) of 20 pCi/L for each.

^g The Environmental Protection Department/Environmental Monitoring Section uses the proposed standard because it is a lower value; the final primary drinking water standard in 1977 may have been in error.

^h This value is the lower of two levels given for strontium-89.

ⁱ For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

References

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Appendix B – Flagging Criteria

Flagging Criteria

Beginning in 1991, the Savannah River Site Environmental Protection Department/Environmental Monitoring Section modified its guidelines for flagging constituents in the Groundwater Monitoring Program. These flagging criteria are as follows:

- Flag 2 criteria for constituents equal the U.S. Environmental Protection Agency (EPA) Primary Drinking Water Standard (PDWS), the EPA proposed PDWS, or the EPA 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 EPA PDWS, one-half the EPA proposed PDWS, or one-half the EPA SDWS. If a constituent does not have an EPA 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, carbonate, color, corrosivity, magnesium, odor, potassium, Eh, silica, sodium, total dissolved solids, total phosphorus, total phosphates (as P), and turbidity. In addition, common laboratory contaminants and cleaners including phthalates, methylene chloride, ketones, and toluene are not assigned flagging criteria.

Analyte	Unit	Flag 1	Flag 2	Source
Acenaphthene	µg/L	50	100	EPA Method 8270
Acenaphthylene	µg/L	50	100	EPA Method 8270
Acetone	µg/L	50	100	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
Aldrin	µg/L	2.5	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	Secondary DWS (CFR, 1991b)
Americium-241	pCi/L	3.17E+00	6.34E+00	Proposed DWS (EPA, 1991)
Americium-243	pCi/L	3.19E+00	6.37E+00	Proposed DWS (EPA, 1991)
4-Aminobiphenyl	µg/L	50	100	EPA Method 8270
Ammonia	µg/L	500	1,000	APHA Method 417B
Ammonia nitrogen	µg/L	50	100	EPA Method 350.1
Aniline	µg/L	50	100	EPA Method 8270
Anthracene	µg/L	50	100	EPA Method 8270
Antimony	µg/L	2.5	5	Proposed DWS (EPA, 1990)
Antimony-125	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Aramite	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
Arsenic	µg/L	25	50	Final DWS (CFR, 1991a)
Barium	µg/L	1,000	2,000	Final DWS (CFR, 1991a)
Barium-140	pCi/L	4.5E+01	9E+01	Final DWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final DWS (CFR, 1991a)
alpha-Benzene hexachloride	µg/L	2.5	5	EPA Method 8080
beta-Benzene hexachloride	µg/L	2.5	5	EPA Method 8080
delta-Benzene hexachloride	µg/L	2.5	5	EPA Method 8080
Benidine	µg/L	250	500	EPA Method 8270
Benzo[a]anthracene	µg/L	0.05	0.1	Proposed DWS (EPA, 1990)
Benzo[b]fluoranthene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Benzo[k]fluoranthene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Benzo[g,h,i]perylene	µg/L	50	100	EPA Method 8270
Benzo[a]pyrene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Benzoic acid	µg/L	250	500	EPA Method 8270
1,4-Benzoquinone	µg/L	50	100	EPA Method 8270
Benzyl alcohol	µg/L	100	200	EPA Method 8270
Beryllium	µg/L	0.5	1	Proposed DWS (EPA, 1990)
Beryllium-7	pCi/L	3E+03	6E+03	Final DWS (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(chloromethyl-ethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate		No flag	No flag	Set by EPD/EMS
Bromide	µg/L	5,000	10,000	EPA Method 300.0
Bromodichloromethane	µg/L	50	100	Final DWS (CFR, 1991a)
Bromoform	µg/L	50	100	Final DWS (CFR, 1991a)
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	Proposed DWS (EPA, 1990)
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
Cadmium	µg/L	2.5	5	Final DWS (CFR, 1991a)
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 DWS (CFR, 1991a)
Carbon-14	pCi/L	1E+03	2E+03	Final DWS (EPA, 1977)
Carbonate	µg/L	500	1,000	EPA Method 310.1
Cerium-141	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Cerium-144	pCi/L	1.31E+02	2.61E+02	Proposed DWS (EPA, 1991)
Cesium-134	pCi/L	4.07E+01	8.13E+01	Proposed DWS (EPA, 1991)
Cesium-137	pCi/L	1E+02	2E+02	Final DWS (EPA, 1977)
Chlordane	µg/L	1	2	Final DWS (CFR, 1991a)
Chloride		125,000	250,000	Secondary DWS (CFR, 1991b)
4-Chloroaniline	µg/L	50	100	EPA Method 8270
Chlorobenzene	µg/L	5	10	EPA Method 8240
Chlorobenzilate	µg/L	50	100	EPA Method 8270
Chloroethane	µg/L	5	10	EPA Method 8240
Chloroethene (Vinyl chloride)	µg/L	1	2	Final DWS (CFR, 1991a)
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 DWS (CFR, 1991a)
para-Chloro-meta-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
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 DWS (CFR, 1991a)
Chromium-51	pCi/L	3E+03	6E+03	Final DWS (EPA, 1977)
Chrysene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Cobalt	µg/L	20	40	EPA Method 6010
Cobalt-57	pCi/L	5E+02	1E+03	Final DWS (EPA, 1977)
Cobalt-58	pCi/L	4.5E+03	9E+03	Final DWS (EPA, 1977)
Cobalt-60	pCi/L	5E+01	1E+02	Final DWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	µg/L	650	1,300	Final DWS (CFR, 1991a)
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 DWS (EPA, 1991)
Curium-243	pCi/L	4.15E+00	8.3E+00	Proposed DWS (EPA, 1991)
Curium-244	pCi/L	4.92E+00	9.84E+00	Proposed DWS (EPA, 1991)
Curium-246	pCi/L	3.14E+00	6.27E+00	Proposed DWS (EPA, 1991)
Cyanide	µg/L	100	200	Proposed DWS (EPA, 1990)
p,p'-DDD	µg/L	2.5	5	EPA Method 8080
p,p'-DDE	µg/L	2.5	5	EPA Method 8080
p,p'-DDT	µg/L	2.5	5	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 DWS (EPA, 1990)
Dibenzofuran	µg/L	50	100	EPA Method 8270
Dibromochloromethane	µg/L	50	100	Final DWS (CFR, 1991a)
Dibromochloropropane	µg/L	0.1	0.2	Final DWS (CFR, 1991a)
1,2-Dibromo-3-chloropropane	µg/L	250	500	EPA Method 8240
1,2-Dibromoethane	µg/L	100	200	EPA Method 8240
Dibromomethane (Methylene bromide)	µg/L	5	10	EPA Method 8240
1,2-Dichlorobenzene	µg/L	300	600	Final DWS (CFR, 1991a)
1,3-Dichlorobenzene	µg/L	50	100	EPA Method 8270
1,4-Dichlorobenzene	µg/L	37.5	75	Final DWS (CFR, 1991a)
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 DWS (CFR, 1991a)
cis-1,2-Dichloroethene	µg/L	35	70	Final DWS (CFR, 1991a)
1,1-Dichloroethylene	µg/L	3.5	7	Final DWS (CFR, 1991a)
1,2-Dichloroethylene	µg/L	25	50	EPA Method 8240
trans-1,2-Dichloroethylene	µg/L	50	100	Final DWS (CFR, 1991a)
Dichloromethane (Methylene chloride)		No flag	No flag	Set by EPD/EMS
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 DWS (CFR, 1991a)
1,2-Dichloropropane	µg/L	2.5	5	Final DWS (CFR, 1991a)
cis-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240
trans-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240
Dieldrin	µg/L	2.5	5	EPA Method 8080

Analyte	Unit	Flag 1	Flag 2	Source
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
4,6-Dinitro-ortho-cresol	µg/L	250	500	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	2.5	5	EPA Method 8080
Endosulfan II	µg/L	2.5	5	EPA Method 8080
Endosulfan sulfate	µg/L	2.5	5	EPA Method 8080
Endrin	µg/L	0.1	0.2	Final DWS (CFR, 1991a)
Endrin aldehyde	µg/L	2.5	5	EPA Method 8080
Endrin ketone		No flag	No flag	Set by EPD/EMS
Ethyl methacrylate	µg/L	50	100	EPA Method 8270
Ethyl methanesulfonate	µg/L	50	100	EPA Method 8270
Ethylbenzene	µg/L	350	700	Final DWS (CFR, 1991a)
Europium-154	pCi/L	1E+02	2E+02	Final DWS (EPA, 1977)
Europium-155	pCi/L	3E+02	6E+02	Final DWS (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 DWS (CFR, 1991a)
Gross alpha	pCi/L	7.5E+00	1.5E+01	Final DWS (CFR, 1991a)
Heptachlor	µg/L	0.2	0.4	Final DWS (CFR, 1991a)
Heptachlor epoxide	µg/L	0.1	0.2	Final DWS (CFR, 1991a)
Heptachlorodibenzo-p-dioxin isomers	µg/L	0.00325	0.0065	EPA Method 8280
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	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-Heptachlorodibenzo-p-furan	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorobenzene	µg/L	0.5	1	Proposed DWS (EPA, 1990)
Hexachlorobutadiene	µg/L	50	100	EPA Method 8270
Hexachlorocyclopentadiene	µg/L	25	50	Proposed DWS (EPA, 1990)
Hexachlorodibenzo-p-dioxin isomers	µg/L	0.00225	0.0045	EPA Method 8280
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorodibenzo-p-furan isomers	µg/L	0.002	0.004	EPA Method 8280

<u>Analyte</u>	<u>Unit</u>	<u>Flag 1</u>	<u>Flag 2</u>	<u>Source</u>
1,2,3,4,7,8-Hexachlorodibenzo- p-furan	µg/L	0.002	0.004	EPA Method 8280
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	100	200	EPA Method 8240
Indeno[1,2,3-c,d]pyrene	µg/L	50	100	EPA Method 8270
Iodine	µg/L	500	1,000	EPA Method 415
Iodine-129	pCi/L	5E-01	1E+00	Final DWS (EPA, 1977)
Iodine-131	pCi/L	1.5E+00	3E+00	Final DWS (EPA, 1977)
Iodomethane (Methyl iodide)	µg/L	75	150	EPA Method 8240
Iron	µg/L	150	300	Secondary DWS (CFR, 1991b)
Iron-55	pCi/L	1E+03	2E+03	Final DWS (EPA, 1977)
Iron-59	pCi/L	1E+02	2E+02	Final DWS (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 DWS (EPA, 1977)
Lead	µg/L	7.5	15	Final DWS (CFR, 1991a)
Lindane	µg/L	0.1	0.2	Final DWS (CFR, 1991a)
Lithium	µg/L	25	50	EPA Method 6010
Magnesium		No flag	No flag	Set by EPD/EMS
Manganese	µg/L	25	50	Secondary DWS (CFR, 1991b)
Manganese-54	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Mercury	µg/L	1	2	Final DWS (CFR, 1991a)
Methacrylonitrile	µg/L	250	500	EPA Method 8240
Methapyrilene	µg/L	50	100	EPA Method 8270
Methoxychlor	µg/L	20	40	Final DWS (CFR, 1991a)
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 DWS (EPA, 1991)
Nickel	µg/L	50	100	Proposed DWS (EPA, 1990)
Nickel-59	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Nickel-63	pCi/L	2.5E+01	5E+01	Final DWS (EPA, 1977)
Niobium-95	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Nitrate as nitrogen	µg/L	5,000	10,000	Final DWS (CFR, 1991a)
Nitrate-nitrite as nitrogen	µg/L	5,000	10,000	Final DWS (CFR, 1991a)
Nitrite as nitrogen	µg/L	500	1,000	Final DWS (CFR, 1991a)
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

Analyte	Unit	Flag 1	Flag 2	Source
2-Nitrophenol	µg/L	50	100	EPA Method 8270
4-Nitrophenol	µg/L	50	100	EPA Method 8270
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-Nitrosodi-propylamine	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 DWS (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	2.5	5	EPA Method 8080
Parathion methyl	µg/L	2.5	5	EPA Method 8080
PCB 1016	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1221	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1232	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1242	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1248	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1254	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1260	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
PCB 1262	µg/L	0.25	0.5	Final DWS (CFR, 1991a)
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-Pentachlorodibenzo-p-dioxin	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-Pentachlorodibenzo-p-furan	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 DWS (CFR, 1991a)
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	2.5	5	EPA Method 8080
2-Picoline	µg/L	50	100	EPA Method 8270
Plutonium-238	pCi/L	3.51E+00	7.02E+00	Proposed DWS (EPA, 1991)
Plutonium-239	pCi/L	3.11E+01	6.21E+01	Proposed DWS (EPA, 1991)
Plutonium-239/240 ^a	pCi/L	3.11E+01	6.21E+01	Proposed DWS (EPA, 1991)
Plutonium-240	pCi/L	3.11E+01	6.22E+01	Proposed DWS (EPA, 1991)
Plutonium-241	pCi/L	3.13E+01	6.26E+01	Proposed DWS (EPA, 1991)
Plutonium-242	pCi/L	3.27E+01	6.54E+01	Proposed DWS (EPA, 1991)
Potassium		No flag	No flag	Set by EPD/EMS

Analyte	Unit	Flag 1	Flag 2	Source
Potassium-40	pCi/L	1.5E+02	3E+02	Proposed DWS (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
Radium-226	pCi/L	7.85E+00	1.57E+01	Proposed DWS (EPA, 1991)
Radium-228	pCi/L	3.93E+00	7.85E+00	Proposed DWS (EPA, 1991)
Radon-222	pCi/L	1.5E+02	3E+02	Proposed DWS (EPA, 1991)
Ruthenium-103	pCi/L	1E+02	2E+02	Final DWS (EPA, 1977)
Ruthenium-106	pCi/L	1.5E+01	3E+01	Final DWS (EPA, 1977)
Safrole	µg/L	50	100	EPA Method 8270
Selenium	µg/L	25	50	Final DWS (CFR, 1991a)
Silica		No flag	No flag	Set by EPD/EMS
Silver	µg/L	25	50	Final DWS (CFR, 1991a)
Sodium		No flag	No flag	Set by EPD/EMS
Sodium-22	pCi/L	2.33E+02	4.66E+02	Proposed DWS (EPA, 1991)
Specific conductance	µS/cm	250	500	Set by EPD/EMS
Strontium-89	pCi/L	1E+01	2E+01	Final DWS (EPA, 1977)
Strontium-89/90 ^a	pCi/L	4E+00	8E+00	Final DWS (CFR, 1991a)
Strontium-90	pCi/L	4E+00	8E+00	Final DWS (CFR, 1991a)
Styrene	µg/L	50	100	Final DWS (CFR, 1991a)
Sulfate	µg/L	200,000	400,000	Proposed DWS (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	0.00225	0.0045	EPA Method 8280
2,3,7,8-TCDF	µg/L	0.002	0.004	EPA Method 8280
Technetium-99	pCi/L	4.5E+02	9E+02	Final DWS (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 DWS (CFR, 1991a)
2,3,4,6-Tetrachlorophenol	µg/L	50	100	EPA Method 8270
Tetraethyl dithiopyrophosphate	µg/L	50	100	EPA Method 8270
Thallium	µg/L	0.5	1	Proposed DWS (EPA, 1990)
Thionazin	µg/L	50	100	EPA Method 8270
Thorium-228	pCi/L	6.25E+01	1.25E+02	Proposed DWS (EPA, 1991)
Thorium-230	pCi/L	3.96E+01	7.92E+01	Proposed DWS (EPA, 1991)
Thorium-232	pCi/L	4.4E+01	8.8E+01	Proposed DWS (EPA, 1991)
Thorium-234	pCi/L	2E+02	4.01E+02	Proposed DWS (EPA, 1991)
Tin	µg/L	10	20	EPA Method 282.2
Tin-113	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Toluene	µg/L	500	1,000	Final DWS (CFR, 1991a)
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	EPA Method 420

Analyte	Unit	Flag 1	Flag 2	Source
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
Total radium	pCi/L	2.5E+00	5E+00	Final DWS (CFR, 1991a)
Total silica	µg/L	500	1,000	EPA Method 6010
Total trihalomethanes	µg/L	50	100	Final DWS (CFR, 1991a)
Toxaphene	µg/L	1.5	3	Final DWS (CFR, 1991a)
2,4,5-TP (Silvex)	µg/L	25	50	Final DWS (CFR, 1991a)
Tributyl phosphate	µg/L	50	100	EPA Method 8270
1,2,4-Trichlorobenzene	µg/L	4.5	9	Proposed DWS (EPA, 1990)
1,1,1-Trichloroethane	µg/L	100	200	Final DWS (CFR, 1991a)
1,1,2-Trichloroethane	µg/L	2.5	5	Proposed DWS (EPA, 1990)
Trichloroethylene	µg/L	2.5	5	Final DWS (CFR, 1991a)
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 DWS (CFR, 1991a)
Turbidity		No flag	No flag	Set by EPD/EMS
Uranium	µg/L	10	20	Proposed DWS (EPA, 1991)
Uranium alpha activity	pCi/L	1.5E+01	3E+01	Proposed DWS (EPA, 1991)
Uranium-233/234 ^a	pCi/L	6.9E-00	1.38E+01	Proposed DWS (EPA, 1991)
Uranium-234	pCi/L	6.95E+00	1.39E+01	Proposed DWS (EPA, 1991)
Uranium-235	pCi/L	7.25E+00	1.45E+01	Proposed DWS (EPA, 1991)
Uranium-238	pCi/L	7.3E+00	1.46E+01	Proposed DWS (EPA, 1991)
Vanadium	µg/L	50	100	EPA Method 6010
Vinyl acetate	µg/L	5	10	EPA Method 8240
Xylenes	µg/L	5,000	10,000	Final DWS (CFR, 1991a)
Zinc	µg/L	2,500	5,000	Secondary DWS (CFR, 1991b)
Zinc-65	pCi/L	1.5E+02	3E+02	Final DWS (EPA, 1977)
Zirconium-95	pCi/L	1E+02	2E+02	Final DWS (EPA, 1977)
Zirconium/Niobium-95 ^a	pCi/L	1E+02	2E+02	Final DWS (EPA, 1977)

^a For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

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Appendix C – Figures

Figure 1. Location of the Metallurgical Laboratory HWMF at the Savannah River Site

Figure 2. Location of the Metallurgical Laboratory HWMF in A and M Areas

Figure 3. Water-Elevation Contour Map of the Water Table at the Metallurgical Laboratory HWMF and Locations of the Water-Table Wells

Figure 4. Potentiometric Surface Map of the Upper Section of the Congaree Aquifer at the Metallurgical Laboratory HWMF and Locations of Wells that Monitor the Upper Section of the Congaree

Figure 5. Potentiometric Surface Map of the Lower Section of the Congaree Aquifer at the Metallurgical Laboratory HWMF and Locations of Wells that Monitor the Lower Section of the Congaree

Figure 6. Water-Elevation Contour Map of the Water Table in A and M Areas

Appendix D – Groundwater Monitoring Results Tables

Key to Reading the Tables

The following abbreviations may appear in the tabular data:

CN = Clemson Technical Center, Inc.
CS = carbon steel
D = primary drinking water standard (PDWS)
E = exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
EM = Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) Laboratory
GE = General Engineering Laboratories
GP = Environmental Physics, Inc.
H = holding time
1,2,3,4,6,7,8-HPCDD = 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
1,2,3,4,6,7,8-HPCDF = 1,2,3,4,6,7,8-heptachlorodibenzo-p-furan
1,2,3,4,7,8-HXCDD = 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
1,2,3,4,7,8-HXCDF = 1,2,3,4,7,8-hexachlorodibenzo-p-furan
Lindane = gamma-benzene hexachloride
mg/L = milligrams per liter
Mod = modifier
msl = mean sea level
MSL = million structures per liter
NTU = turbidity unit
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
pH = pH unit
pCi/L = picocuries per liter
pCi/mL = picocuries per milliliter
PDWS = primary drinking water standard
PVC = polyvinyl chloride
Sp. conductance = specific conductance
SP = Spencer Testing Services, Inc.
TCDD = tetrachlorodibenzo-p-dioxin
TCDF = tetrachlorodibenzo-p-furan
TM = TMA/Eberline
TOC = top of casing
WA = Roy F. Weston, Inc.
 $\mu\text{g/L}$ = micrograms per liter
 $\mu\text{S/cm}$ = microsiemens per centimeter

Holding Times

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

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

Laboratory-initiated procedures for reducing the number of other analyses performed out of holding time include subcontracting analyses when difficulties with equipment, personnel, or work load would prevent timely analyses. Beginning fourth quarter 1991, SRS reduced the compensation to laboratories for analyses performed out of holding time.

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 EPD/EMS and provided to the primary laboratories are defined below. These modifiers appear in the data tables under the column "Mod."

<u>Result modifier</u>	<u>Definition</u>
(Blank)	Data are not qualified. Number should be interpreted exactly as reported.
A ^a	Value reported is the mean of two or more determinations.
J ^a	Value is estimated because quantitation in the sample or in associated quality control samples did not meet specifications.
L ^a	Value is off-scale high. The actual value is not known but is known to be greater than the value shown.
M ^a	Presence of the analyte is verified but not quantified.
R ^a	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T ^a	Analyte was not detected; if present, it was below the criteria for detection.
V ^a	Analyte was detected in the associated method blank.
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.
6	The associated result is from a re-analysis performed out of holding time due to problems with an earlier analysis.

^a These codes are based on the STORET codes from EPA.

Table 1. Constituents Exceeding the Primary Drinking Water Standards

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q92</u>	<u>3Q92</u>	<u>Mod</u>
AMB 4D	Tetrachloroethylene	µg/L	6.1	— ^a	
	Trichloroethylene	µg/L	86	56 ^b	
	Trichloroethylene	µg/L	NA ^c	66 ^b	
AMB 5	Tetrachloroethylene	µg/L	8.3	11	
	Total alpha-emitting radium ^d	pCi/L	6.3E+00	5.9E+00	
	Trichloroethylene	µg/L	150	167	
AMB 6	Trichloroethylene	µg/L	—	7.0	

Aquifer Unit IIA (upper section of Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q92</u>	<u>3Q92</u>	<u>Mod</u>
AMB 4B	Trichloroethylene	µg/L	9.9	6.3 ^b	
	Trichloroethylene	µg/L	NA	7.7 ^b	
AMB 10B	Total alpha emitting radium	µg/L	—	8.9E+00	

Aquifer Unit IIA (lower section of Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q92</u>	<u>3Q92</u>	<u>Mod</u>
AMB 4A	Tetrachloroethylene	µg/L	44 ^e	40 ^e	
	Tetrachloroethylene	µg/L	12 ^e	56 ^e	
	Trichloroethylene	µg/L	812 ^b	472 ^b	
	Trichloroethylene	µg/L	510 ^b	634 ^b	
AMB 7A	Tetrachloroethylene	µg/L	5.9	15 ^e	
	Tetrachloroethylene	µg/L	NA	19 ^e	
	Trichloroethylene	µg/L	104	346 ^b	
	Trichloroethylene	µg/L	NA	399 ^b	

^a — = analyzed but not above the PDWS.

^b Duplicate/replicate samples of trichloroethylene.

^c NA = not analyzed.

^d The PDWS for total radium was applied to total alpha-emitting radium.

^e Duplicate/replicate samples of tetrachloroethylene.

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

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q92</u>	<u>Mod</u>	<u>Flag</u>
AMB 4D	<i>Gross alpha</i>	pCi/L	7.5E+00		1
	Manganese	µg/L	53		2
	<i>Tetrachloroethylene</i>	µg/L	3.6 ^a		1
	<i>Tetrachloroethylene</i>	µg/L	4.0 ^a		1
	Total organic halogens	µg/L	44		1
AMB 5	<i>Carbon tetrachloride</i>	µg/L	2.7		1
	Total organic halogens	µg/L	85		2
AMB 7	<i>Trichloroethylene</i>	µg/L	4.6		1
AMB 10DD	Iron	µg/L	6,460		2
	Manganese	µg/L	322		2

Aquifer Unit IIA (upper section of Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q92</u>	<u>Mod</u>	<u>Flag</u>
None	_b	-	-	-	-

Aquifer Unit IIB (lower section of Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q92</u>	<u>Mod</u>	<u>Flag</u>
AMB 7A	Total organic halogens	µg/L	164		2
AMB 10A	pH	pH	12	J	2
	Specific conductance	µS/cm	850		2
	Total alpha-emitting radium ^c	pCi/L	2.9E+00		1
AMB 13AR	pH	pH	11 ^d	J	2
	pH	pH	11 ^d	J	2

Note: Constituents exceeding half the PDWS appear italicized.

^a Duplicate/replicate samples of tetrachloroethylene.

^b - = No analyzed constituents exceeded criteria.

^c The PDWS for total radium was applied to total alpha-emitting radium.

^d Duplicate/replicate samples of pH.

Table 3. Groundwater Monitoring Results for Individual Wells**WELL AMB 4A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N104131.6 E51469.8	33.340041 °N 81.733589 °W	126.3-121.3 ft msl	380.5 ft msl		Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 07/24/92
Depth to water: 161.68 ft (49.28 m) below TOC
Water elevation: 218.82 ft (66.70 m) msl
Sp. conductance: 66 μ S/cm
Water evacuated before sampling: 256 gal

Time: 7:55
pH: 6.5
Alkalinity: 21 mg/L
Water temperature: 20.5°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Asbestos	<0.30		MSL	0	SP
		pH	7.1	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	75		μ S/cm	0	GE
		Acenaphthene	<10	J1	μ g/L	0	GE
		Acenaphthene	<10	J1	μ g/L	0	GE
		Acenaphthylene	<10	J1	μ g/L	0	GE
		Acenaphthylene	<10	J1	μ g/L	0	GE
		Acetone	<1,000		μ g/L	0	GE
		Acetonitrile (Methyl cyanide)	<10		μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		2-Acetylaminofluorene	<10	J1	μ g/L	0	GE
		Acrolein	<200		μ g/L	0	GE
		Acrolein	<200		μ g/L	0	GE
		Acrylonitrile	<200		μ g/L	0	GE
		Acrylonitrile	<200		μ g/L	0	GE
		Aldrin	<0.050		μ g/L	0	GE
		Aldrin	<0.050		μ g/L	0	GE
		Allyl chloride	<500		μ g/L	0	GE
		4-Aminobiphenyl	<10	J1	μ g/L	0	GE
		Aniline	<10	J1	μ g/L	0	GE
		Anthracene	<10	J1	μ g/L	0	GE
		Anthracene	<10	J1	μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Aramite	<10	J1	μ g/L	0	GE
		Arsenic	2.5		μ g/L	0	GE
		Arsenic	2.7		μ g/L	0	GE
		Arsenic	3.1		μ g/L	0	GE
		Barium	6.2		μ g/L	0	GE
		Benzene	<10		μ g/L	0	GE
		Benzene	<10		μ g/L	0	GE
		alpha-Benzene hexachloride	<0.050		μ g/L	0	GE
		alpha-Benzene hexachloride	<0.050		μ g/L	0	GE
		beta-Benzene hexachloride	<0.050		μ g/L	0	GE
		beta-Benzene hexachloride	<0.050		μ g/L	0	GE
		delta-Benzene hexachloride	<0.050		μ g/L	0	GE
		delta-Benzene hexachloride	<0.050		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Benidine	<10	J1	µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<100		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<10		µg/L	0	GE
		Bromodichloromethane	<10		µg/L	0	GE
		Bromoform	<10		µg/L	0	GE
		Bromoform	<10		µg/L	0	GE
		Bromomethane (Methyl bromide)	<10		µg/L	0	GE
		Bromomethane (Methyl bromide)	<10		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<10		µg/L	0	GE
		Carbon tetrachloride	<10		µg/L	0	GE
		Carbon tetrachloride	<10		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<10		µg/L	0	GE
		Chlorobenzene	<10		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<10		µg/L	0	GE
		Chloroethane	<10		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<10		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<10		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<10		µg/L	0	GE
		Chloroform	<10		µg/L	0	GE
		Chloromethane (Methyl chloride)	<10		µg/L	0	GE
		Chloromethane (Methyl chloride)	<10		µg/L	0	GE

● = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Chloroprene	< 2,000		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 10		µg/L	0	GE
		Dibromochloromethane	< 10		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 10		µg/L	0	GE
		1,2-Dibromoethane	< 200		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 10		µg/L	0	GE
		Di-n-butyl phthalate	20	J1	µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 10		µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 10		µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 10		µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 300		µg/L	0	GE
		Dichlorodifluoromethane	< 10		µg/L	0	GE
		Dichlorodifluoromethane	< 10		µg/L	0	GE
		1,1-Dichloroethane	< 10		µg/L	0	GE
		1,1-Dichloroethane	< 10		µg/L	0	GE
		1,2-Dichloroethane	< 10		µg/L	0	GE
		1,2-Dichloroethane	< 10		µg/L	0	GE
		1,1-Dichloroethylene	< 10		µg/L	0	GE
		1,1-Dichloroethylene	< 10		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 10		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 10		µg/L	0	GE
		Dichloromethane (Methylene chloride)	19	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	25	J2	µg/L	0	GE

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WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 10		µg/L	0	GE
		1,2-Dichloropropane	< 10		µg/L	0	GE
		cis-1,3-Dichloropropene	< 10		µg/L	0	GE
		cis-1,3-Dichloropropene	< 10		µg/L	0	GE
		trans-1,3-Dichloropropene	< 10		µg/L	0	GE
		trans-1,3-Dichloropropene	< 10		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 10		µg/L	0	GE
		Ethylbenzene	< 10		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE

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WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<10		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<150		µg/L	0	GE
		Iron	8.9		µg/L	0	GE
		Isobutyl alcohol	<1,000		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Manganese	7.6		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<500		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<10		µg/L	0	GE
		Methyl isobutyl ketone	<10		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE

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WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE

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WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Phenol	< 10		µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		p-Phenylenediamine	< 10	J1	µg/L	0	GE
		Phorate	< 0.10		µg/L	0	GE
		2-Picoline	< 10	J1	µg/L	0	GE
		Pronamid	< 10	J1	µg/L	0	GE
		Propionitrile	< 2,000		µg/L	0	GE
		Pyrene	< 10	J1	µg/L	0	GE
		Pyrene	< 10	J1	µg/L	0	GE
		Pyridine	< 10	J1	µg/L	0	GE
		Safrole	< 10	J1	µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Styrene	< 10		µg/L	0	GE
		Sulfide	< 1,000		µg/L	0	GE
		Sulfotepp	< 10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	< 10	J1	µg/L	0	GE
		2,3,7,8-TCDD	< 0.00045		µg/L	0	GE
		2,3,7,8-TCDF	< 0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	< 10		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 10		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 10		µg/L	0	GE
■		Tetrachloroethylene	40		µg/L	2	GE
■		Tetrachloroethylene	56		µg/L	2	GE
		2,3,4,6-Tetrachlorophenol	< 10		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thionazin	< 10	J1	µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 10		µg/L	0	GE
		Toluene	< 10		µg/L	0	GE
		o-Toluidine	< 10	J1	µg/L	0	GE
		Total dissolved solids	54,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	6.5		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 10		µg/L	0	GE
		1,1,1-Trichloroethane	< 10		µg/L	0	GE
		1,1,2-Trichloroethane	< 10		µg/L	0	GE
		1,1,2-Trichloroethane	< 10		µg/L	0	GE
■		Trichloroethylene	472		µg/L	2	GE
■		Trichloroethylene	634		µg/L	2	GE
		Trichlorofluoromethane	< 10		µg/L	0	GE
		Trichlorofluoromethane	< 10		µg/L	0	GE
		2,4,5-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE

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WELL AMB 4A collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 10		µg/L	0	GE
		1,3,5-Trinitrobenzene	< 10	J1	µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 10		µg/L	0	GE
		Xylenes	< 20		µg/L	0	GE
		Zinc	2.3		µg/L	0	GE
		Zinc	2.5		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE

WELL AMB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N104145.6 E51482.7	33.340093 °N 81.733582 °W	157.3-152.3 ft msl	380.4 ft msl	4" PVC	Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 07/24/92
 Depth to water: 156.54 ft (47.71 m) below TOC
 Water elevation: 223.86 ft (68.23 m) msl
 Sp. conductance: 33 µS/cm
 Water evacuated before sampling: 188 gal

Time: 7:15
 pH: 4.7
 Alkalinity: 0 mg/L
 Water temperature: 20.0°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Asbestos	< 0.15		MSL	0	SP
		pH	5.3	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	32		µS/cm	0	GE
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10	J1	µg/L	0	GE
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	6.9		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzidine	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10	J1	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10	J1	µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzilate	< 10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10	J1	µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	14		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	5.9		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 1.0		µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.1	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[<i>a</i>]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	65		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Manganese	15		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	10.0		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomorpholine	< 10	J1	µg/L	0	GE
		N-Nitrosopiperidine	< 10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	< 10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	< 10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE

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WELL-AMB 4B collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total dissolved solids	25,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE

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WELL AMB 4B collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		■ Trichloroethylene	6.3		µg/L	2	GE
		■ Trichloroethylene	7.7		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	4.5		µg/L	0	GE
		Zinc	6.5		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE

WELL AMB 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N104154.7 E51489	33.340124 °N 81.733584 °W	233.4-213.4 ft msl	380.3 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/24/92
Depth to water: 147.37 ft (44.92 m) below TOC
Water elevation: 232.93 ft (71.00 m) msl
Sp. conductance: 42 µS/cm
Water evacuated before sampling: 51 gal

Time: 7:40
pH: 5.3
Alkalinity: 7 mg/L
Water temperature: 20.4°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<0.30		MSL	0	SP
•		pH	5.8	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	45		µS/cm	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10	J1	µg/L	0	GE
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	7.3		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzidine	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10	J1	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10	J1	µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzilate	< 10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10	J1	µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.5		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.1	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE
		Diphenylamine	<10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	<10	J1	µg/L	0	GE
		Disulfoton	<10	J1	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0	J2	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	41		µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Manganese	53		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0		µg/L	0	GE
		Methyl isobutyl ketone	<1.0	J2	µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-c-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	3.6		µg/L	1	GE

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WELL AMB 4D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Tetrachloroethylene	4.0		µg/L	1	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total dissolved solids	31,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	44		µg/L	1	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	56		µg/L	2	GE
■		Trichloroethylene	66		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	9.7		µg/L	0	GE
		Zinc	12		µg/L	0	GE
		Gross alpha	7.5E+00 ± 2.4E+00		pCi/L	1	GE
		Nonvolatile beta	4.8E+00 ± 1.7E+00		pCi/L	0	GE
		Total alpha-emitting radium	2.4E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	7.3E-01 ± 3.0E-01		pCi/mL	0	GE

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WELL AMB 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N104083.4 E51467.2	33.339930 °N 81.733502 °W	242.1-222.1 ft msl	379.6 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/24/92
 Depth to water: 145.45 ft (44.33 m) below TOC
 Water elevation: 234.15 ft (71.37 m) msl
 Sp. conductance: 47 µS/cm
 Water evacuated before sampling: 32 gal

Time: 8:15
 pH: 4.9
 Alkalinity: 0 mg/L
 Water temperature: 21.1°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acetone	<200		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<2.0		µg/L	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		2-Acetylaminofluorene	<10	J1	µg/L	0	GE
		Acrolein	<40		µg/L	0	GE
		Acrylonitrile	<40		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<100		µg/L	0	GE
		4-Aminobiphenyl	<10	J1	µg/L	0	GE
		Aniline	<10	J1	µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Aramite	<10	J1	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	7.1		µg/L	0	GE
		Benzene	<2.0		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<20		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<2.0		µg/L	0	GE
		Bromoform	<2.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<2.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE

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WELL AMB 5 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Carbon disulfide	<2.0		µg/L	0	GE
		Carbon tetrachloride	2.7		µg/L	1	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<2.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<2.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<2.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<2.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<2.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<400		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	4.8		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<2.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<2.0		µg/L	0	GE
		1,2-Dibromoethane	<40		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<2.0		µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<60		µg/L	0	GE
		Dichlorodifluoromethane	<2.0		µg/L	0	GE
		1,1-Dichloroethane	2.3		µg/L	0	GE
		1,2-Dichloroethane	<2.0		µg/L	0	GE
		1,1-Dichloroethylene	<2.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<2.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	4.3	J2	µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<2.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<2.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<2.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE

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WELL AMB 5 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 2.0		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10	J1	µg/L	0	GE
		2-Hexanone	< 2.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 30		µg/L	0	GE
		Iron	7.5		µg/L	0	GE
		Isobutyl alcohol	< 200		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE

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WELL AMB 5 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	623		µg/L	0	GE
		Manganese	16		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 100		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 2.0		µg/L	0	GE
		Methyl isobutyl ketone	< 2.0		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomorpholine	< 10	J1	µg/L	0	GE
		N-Nitrosopiperidine	< 10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	< 10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	< 10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		Pentachlorobenzene	< 10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	< 0.00055		µg/L	0	GE

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WELL AMB 5 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<400		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<2.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotepp	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<2.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<2.0		µg/L	0	GE
	■	Tetrachloroethylene	11		µg/L	2	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<2.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	85		µg/L	2	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<2.0		µg/L	0	GE
		1,1,2-Trichloroethane	<2.0		µg/L	0	GE
	■	Trichloroethylene	167		µg/L	2	GE
		Trichlorofluoromethane	<2.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<2.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE

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WELL AMB 5 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 2.0		µg/L	0	GE
		Xylenes	< 4.0		µg/L	0	GE
		Zinc	3.7		µg/L	0	GE
		Gross alpha	4.4E+00 ± 9.6E+00		pCi/L	0	GE
		Gross alpha	5.2E+00 ± 1.9E+00		pCi/L	0	GE
■		Total alpha-emitting radium	5.9E+00 ± 1.4E+00		pCi/L	2	GE

WELL AMB 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N104034.1 E51466	33.339819 °N 81.733410 °W	242.6-222.6 ft msl	377.2 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/24/92

Depth to water: 144.65 ft (44.09 m) below TOC

Water elevation: 232.55 ft (70.88 m) msl

Sp. conductance: 36 µS/cm

Water evacuated before sampling: 26 gal

Time: 8:45

pH: 5.4

Alkalinity: 6 mg/L

Water temperature: 21.7°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10		µg/L	0	GE
		Acenaphthylene	< 10		µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10		µg/L	0	GE
		2-Acetylaminofluorene	< 10		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10		µg/L	0	GE
		Aniline	< 10		µg/L	0	GE
		Anthracene	< 10		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	< 3.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzo[a]anthracene	< 10		µg/L	0	GE
		Benzo[b]fluoranthene	< 10		µg/L	0	GE
		Benzo[k]fluoranthene	< 10		µg/L	0	GE
		Benzo[g,h,i]perylene	< 10		µg/L	0	GE
		Benzo[a]pyrene	< 10		µg/L	0	GE
		Benzyl alcohol	< 10		µg/L	0	GE

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WELL AMB 6 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10		µg/L	0	GE
		Bis(2-chloroethyl) ether	<10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10		µg/L	0	GE
		Butylbenzyl phthalate	<10		µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10		µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10		µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10		µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10		µg/L	0	GE
		Dibenz[a,h]anthracene	<10		µg/L	0	GE
		Dibenzofuran	<10		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Di-n-butyl phthalate	<10		µg/L	0	GE
		1,2-Dichlorobenzene	<10		µg/L	0	GE
		1,3-Dichlorobenzene	<10		µg/L	0	GE
		1,4-Dichlorobenzene	<10		µg/L	0	GE
		3,3'-Dichlorobenzidine	<10		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE

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WELL AMB 6 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		trans-1,2-Dichloroethylene	< 1.0	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.0		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10		µg/L	0	GE
		Dimethoate	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10		µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10		µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10		µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10		µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10		µg/L	0	GE
		1,3-Dinitrobenzene	< 10		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10		µg/L	0	GE
		2,6-Dinitrotoluene	< 10		µg/L	0	GE
		Di-n-octyl phthalate	< 10		µg/L	0	GE
		1,4-Dioxane	< 10		µg/L	0	GE
		Diphenylamine	< 10		µg/L	0	GE
		Disulfoton	< 10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10		µg/L	0	GE
		Ethyl methanesulfonate	< 10		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10		µg/L	0	GE
		Fluoranthene	< 10		µg/L	0	GE
		Fluorene	< 10		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10		µg/L	0	GE
		Hexachlorobutadiene	< 10		µg/L	0	GE
		Hexachlorocyclopentadiene	< 10		µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10		µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10		µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10		µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	31		µg/L	0	GE

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WELL AMB 6 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10		µg/L	0	GE
		Isophorone	< 10		µg/L	0	GE
		Isosafrole	< 10		µg/L	0	GE
		Kepone	< 10		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	100		µg/L	0	GE
		Manganese	4.5		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10		µg/L	0	GE
		Methyl methanesulfonate	< 10		µg/L	0	GE
		3-Methylcholanthrene	< 10		µg/L	0	GE
		2-Methylnaphthalene	< 10		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		1,4-Naphthoquinone	< 10		µg/L	0	GE
		1-Naphthylamine	< 10		µg/L	0	GE
		2-Naphthylamine	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10		µg/L	0	GE
		3-Nitroaniline	< 10		µg/L	0	GE
		4-Nitroaniline	< 10		µg/L	0	GE
		Nitrobenzene	< 10		µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10		µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10		µg/L	0	GE
		N-Nitrosodiethylamine	< 10		µg/L	0	GE
		N-Nitrosodimethylamine	< 10		µg/L	0	GE
		N-Nitrosodiphenylamine	< 10		µg/L	0	GE
		N-Nitrosodipropylamine	< 10		µg/L	0	GE
		N-Nitrosomethylethylamine	< 10		µg/L	0	GE
		N-Nitrosomorpholine	< 10		µg/L	0	GE
		N-Nitrosopiperidine	< 10		µg/L	0	GE
		N-Nitrosopyrrolidine	< 10		µg/L	0	GE
		5-Nitro-o-toluidine	< 10		µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10		µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		Pentachlorobenzene	< 10		µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE

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WELL AMB 6 collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10		µg/L	0	GE
		Pentachloronitrobenzene	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10		µg/L	0	GE
		Phenanthrene	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10		µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10		µg/L	0	GE
		Pronamid	<10		µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10		µg/L	0	GE
		Pyridine	<10		µg/L	0	GE
		Safrole	<10		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10		µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10		µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10		µg/L	0	GE
		Tin	3.1		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	7.0		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	4.6		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE

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WELL AMB 6 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Total alpha-emitting radium	< 1.0E+00		pCi/L	0	GE

WELL AMB 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103920 E51624.9	33.339827 °N 81.732769 °W	242.1-222.1 ft msl	369.9 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/24/92
 Depth to water: 136.54 ft (41.62 m) below TOC
 Water elevation: 233.36 ft (71.13 m) msl
 Sp. conductance: 83 µS/cm
 Water evacuated before sampling: 8 gal
 The well went dry during purging.

Time: :35
 pH: 6.0
 Alkalinity: 30 mg/L
 Water temperature: 20.9°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10		µg/L	0	GE
		Acenaphthylene	< 10		µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10		µg/L	0	GE
		2-Acetylaminofluorene	< 10		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10		µg/L	0	GE
		Aniline	< 10		µg/L	0	GE
		Anthracene	< 10		µg/L	0	GE
		Antimony	2.1		µg/L	0	GE
		Aramite	< 10		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	8.1		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzo[a]anthracene	< 10		µg/L	0	GE
		Benzo[b]fluoranthene	< 10		µg/L	0	GE
		Benzo[k]fluoranthene	< 10		µg/L	0	GE
		Benzo[g,h,i]perylene	< 10		µg/L	0	GE
		Benzo[a]pyrene	< 10		µg/L	0	GE
		Benzyl alcohol	< 10		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10		µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE

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WELL AMB 7 collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10		µg/L	0	GE
		Butylbenzyl phthalate	< 10		µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzilate	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		2-Chloronaphthalene	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10		µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10		µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	10		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10		µg/L	0	GE
		Dibenz[a,h]anthracene	< 10		µg/L	0	GE
		Dibenzofuran	< 10		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10		µg/L	0	GE
		1,2-Dichlorobenzene	< 10		µg/L	0	GE
		1,3-Dichlorobenzene	< 10		µg/L	0	GE
		1,4-Dichlorobenzene	< 10		µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.3	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE

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WELL AMB 7 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10		µg/L	0	GE
		Dimethoate	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10		µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10		µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10		µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10		µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10		µg/L	0	GE
		1,3-Dinitrobenzene	< 10		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10		µg/L	0	GE
		2,6-Dinitrotoluene	< 10		µg/L	0	GE
		Di-n-octyl phthalate	< 10		µg/L	0	GE
		1,4-Dioxane	< 10		µg/L	0	GE
		Diphenylamine	< 10		µg/L	0	GE
		Disulfoton	< 10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10		µg/L	0	GE
		Ethyl methanesulfonate	< 10		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10		µg/L	0	GE
		Fluoranthene	< 10		µg/L	0	GE
		Fluorene	< 10		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10		µg/L	0	GE
		Hexachlorobutadiene	< 10		µg/L	0	GE
		Hexachlorocyclopentadiene	< 10		µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10		µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10		µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10		µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	79		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10		µg/L	0	GE
		Isophorone	< 10		µg/L	0	GE
		Isosafrole	< 10		µg/L	0	GE
		Kepone	< 10		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE

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WELL AMB 7 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	267		µg/L	0	GE
		Manganese	4.1		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0		µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10		µg/L	0	GE
		Methyl methanesulfonate	<10		µg/L	0	GE
		3-Methylcholanthrene	<10		µg/L	0	GE
		2-Methylnaphthalene	<10		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		1,4-Naphthoquinone	<10		µg/L	0	GE
		1-Naphthylamine	<10		µg/L	0	GE
		2-Naphthylamine	<10		µg/L	0	GE
		Nickel	8.5		µg/L	0	GE
		2-Nitroaniline	<10		µg/L	0	GE
		3-Nitroaniline	<10		µg/L	0	GE
		4-Nitroaniline	<10		µg/L	0	GE
		Nitrobenzene	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10		µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10		µg/L	0	GE
		N-Nitrosodiethylamine	<10		µg/L	0	GE
		N-Nitrosodimethylamine	<10		µg/L	0	GE
		N-Nitrosodiphenylamine	<10		µg/L	0	GE
		N-Nitrosodipropylamine	<10		µg/L	0	GE
		N-Nitrosomethylethylamine	<10		µg/L	0	GE
		N-Nitrosomorpholine	<10		µg/L	0	GE
		N-Nitrosopiperidine	<10		µg/L	0	GE
		N-Nitrosopyrrolidine	<10		µg/L	0	GE
		5-Nitro-o-toluidine	<10		µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10		µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10		µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10		µg/L	0	GE
		Pentachloronitrobenzene	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE

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WELL AMB 7 collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Phenacetin	<10		µg/L	0	GE
		Phenanthrene	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10		µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10		µg/L	0	GE
		Pronamid	<10		µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10		µg/L	0	GE
		Pyridine	<10		µg/L	0	GE
		Safrole	<10		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10		µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10		µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	4.6		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	34		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE

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WELL AMB 7A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103987.1 E51591	33.339920 °N 81.732989 °W	125.6-115.6 ft msl	373.6 ft msl		Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 154.78 ft (47.18 m) below TOC
 Water elevation: 218.82 ft (66.70 m) msl
 Sp. conductance: 43 μ S/cm
 Water evacuated before sampling: 303 gal

Time: 15:00
 pH: 6.1
 Alkalinity: 15 mg/L
 Water temperature: 21.3°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<0.15		MSL	0	SP
•		pH	6.5	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	40		μ S/cm	0	GE
		Acenaphthene	<10	J1	μ g/L	0	GE
		Acenaphthene	<10	J1	μ g/L	0	GE
		Acenaphthylene	<10	J1	μ g/L	0	GE
		Acenaphthylene	<10	J1	μ g/L	0	GE
		Acetone	<100		μ g/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		2-Acetylaminofluorene	<10	J1	μ g/L	0	GE
		Acrolein	<200		μ g/L	0	GE
		Acrolein	<20		μ g/L	0	GE
		Acrylonitrile	<200		μ g/L	0	GE
		Acrylonitrile	<20		μ g/L	0	GE
		Aldrin	<0.050		μ g/L	0	GE
		Aldrin	<0.050		μ g/L	0	GE
		Allyl chloride	<50		μ g/L	0	GE
		4-Aminobiphenyl	<10	J1	μ g/L	0	GE
		Aniline	<10	J1	μ g/L	0	GE
		Anthracene	<10	J1	μ g/L	0	GE
		Anthracene	<10	J1	μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Aramite	<10	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	6.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<10		μ g/L	0	GE
		alpha-Benzene hexachloride	<0.050		μ g/L	0	GE
		alpha-Benzene hexachloride	<0.050		μ g/L	0	GE
		beta-Benzene hexachloride	<0.050		μ g/L	0	GE
		beta-Benzene hexachloride	<0.050		μ g/L	0	GE
		delta-Benzene hexachloride	<0.050		μ g/L	0	GE
		delta-Benzene hexachloride	<0.050		μ g/L	0	GE
		Benzidine	<10	J1	μ g/L	0	GE
		Benzo[a]anthracene	<10	J1	μ g/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10	J1	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 10		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 10		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 10		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 10		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10	J1	µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 10		µg/L	0	GE
		Chlorobenzilate	< 10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 10		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 10		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10	J1	µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 10		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 10		µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2-Chlorophenol	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 10		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 10		µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 10		µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 10		µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 10		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 10		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 10		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 10		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 10		µg/L	0	GE
		Dichloromethane (Methylene chloride)	18	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 10		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 10		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 10		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 10		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	17		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Manganese	10		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0	J2	µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomorpholine	< 10	J1	µg/L	0	GE
		N-Nitrosopiperidine	< 10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	< 10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	< 10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		Pentachlorobenzene	< 10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	< 0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	< 0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	< 0.00055		µg/L	0	GE
		Pentachloroethane	< 10	J1	µg/L	0	GE
		Pentachloronitrobenzene	< 10	J1	µg/L	0	GE
		Pentachlorophenol	< 10		µg/L	0	GE
		Pentachlorophenol	< 10		µg/L	0	GE
		Phenacetin	< 10	J1	µg/L	0	GE
		Phenanthrene	< 10	J1	µg/L	0	GE
		Phenanthrene	< 10	J1	µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		p-Phenylenediamine	< 10	J1	µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotepp	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<10		µg/L	0	GE
■		Tetrachloroethylene	15		µg/L	2	GE
■		Tetrachloroethylene	19		µg/L	2	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<10		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total dissolved solids	39,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	164		µg/L	2	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<10		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<10		µg/L	0	GE
■		Trichloroethylene	346		µg/L	2	GE
■		Trichloroethylene	399		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<10		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE

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WELL AMB 7A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	9.9		µg/L	0	GE
		Zinc	10		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE

WELL AMB 7B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103972	33.339885 °N	162.9-152.9 ft msl	373 ft msl	4" PVC	Congaree (IIA)
E51590.3	81.732961 °W				

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 148.58 ft (45.29 m) below TOC
 Water elevation: 224.42 ft (68.40 m) msl
 Sp. conductance: 53 µS/cm
 Water evacuated before sampling: 188 gal

Time: 14:50
 pH: 4.9
 Alkalinity: 2 mg/L
 Water temperature: 20.1°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<0.15		MSL	0	SP
•		pH	5.3	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	30		µS/cm	0	GE
•		Acenaphthene	<10	J6	µg/L	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
•		Acenaphthylene	<10	J6	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acetone	<100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
•		Acetophenone	<10	J6	µg/L	0	GE
•		2-Acetylaminofluorene	<10	J6	µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
•		4-Aminobiphenyl	<10	J6	µg/L	0	GE
•		Aniline	<10	J6	µg/L	0	GE
•		Anthracene	<10	J6	µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
•		Aramite	<10	J6	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Arsenic	< 2.0		µg/L	0	GE
		Barium	< 3.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzidine	< 10	J1	µg/L	0	GE
•		Benzo[a]anthracene	< 10	J6	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
•		Benzo[b]fluoranthene	< 10	J6	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
•		Benzo[k]fluoranthene	< 10	J6	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
•		Benzo[g,h,i]perylene	< 10	J6	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
•		Benzo[a]pyrene	< 10	J6	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
•		Benzyl alcohol	< 10	J6	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
•		Bis(2-chloroethoxy) methane	< 10	J6	µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
•		Bis(2-chloroethyl) ether	< 10	J6	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
•		Bis(2-ethylhexyl) phthalate	< 10	J6	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
•		4-Bromophenyl phenyl ether	< 10	J6	µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
•		Butylbenzyl phthalate	< 10	J6	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
•		2-sec-Butyl-4,6-dinitrophenol	< 10	J6	µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
•		4-Chloroaniline	< 10	J6	µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
•		Chlorobenzilate	< 10	J6	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
•		para-Chloro-meta-cresol	< 10	J6	µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
•		2-Chloroethyl vinyl ether	<10	J6	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
•		2-Chloronaphthalene	<10	J6	µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
•		2-Chlorophenol	<10	J6	µg/L	0	GE
•		4-Chlorophenyl phenyl ether	<10	J6	µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
•		Chrysene	<10	J6	µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
•		o-Cresol (2-Methylphenol)	<10	J6	µg/L	0	GE
•		m-Cresol (3-Methylphenol)	<10	J6	µg/L	0	GE
•		p-Cresol (4-Methylphenol)	<10	J6	µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
•		Diallate	<10	J6	µg/L	0	GE
•		Dibenz[a,h]anthracene	<10	J6	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
•		Dibenzofuran	<10	J6	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
•		Di-n-butyl phthalate	<10	J6	µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	<1.0		µg/L	0	GE
•		1,2-Dichlorobenzene	<10	J6	µg/L	0	GE
		1,3-Dichlorobenzene	<1.0		µg/L	0	GE
•		1,3-Dichlorobenzene	<10	J6	µg/L	0	GE
		1,4-Dichlorobenzene	<1.0		µg/L	0	GE
•		1,4-Dichlorobenzene	<10	J6	µg/L	0	GE
•		3,3'-Dichlorobenzidine	<10	J6	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.3	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
•		2,4-Dichlorophenol	<10	J6	µg/L	0	GE
•		2,6-Dichlorophenol	<10	J6	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
•		Diethyl phthalate	<10	J6	µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
•		Dimethoate	<10	J6	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
•		2,4-Dimethyl phenol	<10	J6	µg/L	0	GE
•		Dimethyl phthalate	<10	J6	µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
•		p-Dimethylaminoazobenzene	<10	J6	µg/L	0	GE
•		7,12-Dimethylbenz[a]anthracene	<10	J6	µg/L	0	GE
•		3,3'-Dimethylbenzidine	<10	J6	µg/L	0	GE
•		a,a-Dimethylphenethylamine	<10	J6	µg/L	0	GE
•		1,3-Dinitrobenzene	<10	J6	µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
•		2,4-Dinitrophenol	<45	J6	µg/L	0	GE
•		2,4-Dinitrotoluene	<10	J6	µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
•		2,6-Dinitrotoluene	<10	J6	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
•		Di-n-octyl phthalate	<10	J6	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
•		1,4-Dioxane	<10	J6	µg/L	0	GE
•		Diphenylamine	<10	J6	µg/L	0	GE
		1,2-Diphenylhydrazine	<10	J1	µg/L	0	GE
•		Disulfoton	<10	J6	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Ethyl methacrylate	< 10	J6	µg/L	0	GE
•		Ethyl methanesulfonate	< 10	J6	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
•		Famphur	< 10	J6	µg/L	0	GE
•		Fluoranthene	< 10	J6	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
•		Fluorene	< 10	J6	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
•		Hexachlorobenzene	< 10	J6	µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
•		Hexachlorobutadiene	< 10	J6	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
•		Hexachlorocyclopentadiene	< 10	J6	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
•		Hexachloroethane	< 10	J6	µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
•		Hexachlorophene	< 10	J6	µg/L	0	GE
•		Hexachloropropene	< 10	J6	µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
•		Indeno[1,2,3-c,d]pyrene	< 10	J6	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	5.1		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
•		Isodrin	< 10	J6	µg/L	0	GE
•		Isophorone	< 10	J6	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
•		Isosafrole	< 10	J6	µg/L	0	GE
•		Kepone	< 10	J6	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Manganese	3.2		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
•		Methapyrilene	< 10	J6	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
•		2-Methyl-4,6-dinitrophenol	< 10	J6	µg/L	0	GE
		Methyl ethyl ketone	< 1.0	J2	µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
•		Methyl methacrylate	< 10	J6	µg/L	0	GE
•		Methyl methanesulfonate	< 10	J6	µg/L	0	GE
•		3-Methylcholanthrene	< 10	J6	µg/L	0	GE
•		2-Methylnaphthalene	< 10	J6	µg/L	0	GE
•		Naphthalene	< 10	J6	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
•		1,4-Naphthoquinone	< 10	J6	µg/L	0	GE
•		1-Naphthylamine	< 10	J6	µg/L	0	GE
•		2-Naphthylamine	< 10	J6	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
•		2-Nitroaniline	< 10	J6	µg/L	0	GE
•		3-Nitroaniline	< 10	J6	µg/L	0	GE
•		4-Nitroaniline	< 10	J6	µg/L	0	GE
•		Nitrobenzene	< 10	J6	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
•		2-Nitrophenol	< 10	J6	µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
•		4-Nitrophenol	< 10	J6	µg/L	0	GE
•		4-Nitroquinoline-1-oxide	< 10	J6	µg/L	0	GE
•		N-Nitrosodi-n-butylamine	< 10	J6	µg/L	0	GE
•		N-Nitrosodiethylamine	< 10	J6	µg/L	0	GE
•		N-Nitrosodimethylamine	< 10	J6	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
•		N-Nitrosodiphenylamine	< 10	J6	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
•		N-Nitrosodipropylamine	< 10	J6	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
•		N-Nitrosomethylethylamine	< 10	J6	µg/L	0	GE
•		N-Nitrosomorpholine	< 10	J6	µg/L	0	GE
•		N-Nitrosopiperidine	< 10	J6	µg/L	0	GE
•		N-Nitrosopyrrolidine	< 10	J6	µg/L	0	GE
•		5-Nitro-o-toluidine	< 10	J6	µg/L	0	GE
•		O,O,O-Triethyl phosphorothioate	< 10	J6	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
•		Pentachlorobenzene	< 10	J6	µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
•		Pentachloroethane	<10	J6	µg/L	0	GE
•		Pentachloronitrobenzene	<10	J6	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
•		Pentachlorophenol	<10	J6	µg/L	0	GE
•		Phenacetin	<10	J6	µg/L	0	GE
•		Phenanthrene	<10	J6	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
•		Phenol	<10	J6	µg/L	0	GE
•		p-Phenylenediamine	<10	J6	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
•		2-Picoline	<10	J6	µg/L	0	GE
•		Pronamid	<10	J6	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
•		Pyrene	<10	J6	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
•		Pyridine	<10	J6	µg/L	0	GE
•		Safrole	<10	J6	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
•		Sulfotep	<10	J6	µg/L	0	GE
•		1,2,4,5-Tetrachlorobenzene	<10	J6	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
•		2,3,4,6-Tetrachlorophenol	<10	J6	µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
•		Thionazin	<10	J6	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		o-Toluidine	<10	J6	µg/L	0	GE
		Total dissolved solids	31,000	V	µg/L	0	GE
•		Total organic carbon	<1,000	J6	µg/L	0	GE
		Total organic halogens	8.2		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
•		1,2,4-Trichlorobenzene	<10	J6	µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE

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WELL AMB 7B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
•		2,4,5-Trichlorophenol	< 10	J6	µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
•		2,4,6-Trichlorophenol	< 10	J6	µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
•		1,3,5-Trinitrobenzene	< 10	J6	µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	4.4		µg/L	0	GE
		Zinc	4.6		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE

WELL AMB 8D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103874.7	33.339360 °N	240.8-220.8 ft msl	369.6 ft msl	4" PVC	Water table (IIB ₂)
E51400.5	81.733272 °W				

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 136.58 ft (41.63 m) below TOC
 Water elevation: 233.02 ft (71.03 m) msl
 Sp. conductance: 85 µS/cm
 Water evacuated before sampling: 32 gal

Time: 14:05
 pH: 5.4
 Alkalinity: 16 mg/L
 Water temperature: 19.8°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10	J1	µg/L	0	GE
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE

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WELL AMB 8D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Aramite	<10	J1	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	<3.0		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE

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WELL AMB 8D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.2	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE

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WELL AMB 8D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10	J1	µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	18		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	133		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomorpholine	< 10	J1	µg/L	0	GE
		N-Nitrosopiperidine	< 10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	< 10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	< 10	J1	µg/L	0	GE

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WELL AMB 8D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotepp	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE

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WELL AMB 8D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	< 10	J1	µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	2.3		µg/L	0	GE
		Gross alpha	2.9E+00 ± 1.6E+00		pCi/L	0	GE
		Total alpha-emitting radium	< 1.0E+00		pCi/L	0	GE

WELL AMB 9D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103585.2 E51263	33.338496 °N 81.733071 °W	239.7-219.7 ft msl	367.9 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/23/92

Depth to water: 135.17 ft (41.20 m) below TOC

Water elevation: 232.73 ft (70.94 m) msl

Sp. conductance: 55 µS/cm

Water evacuated before sampling: 34 gal

Time: 13:45

pH: 5.3

Alkalinity: 9 mg/L

Water temperature: 21.5°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10	J1	µg/L	0	GE
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	3.4		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE

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WELL AMB 9D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	7.7		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE

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WELL AMB 9D collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE

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WELL AMB 9D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	<4.0		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	125		µg/L	0	GE
		Manganese	4.5		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0		µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE

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WELL AMB 9D collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE

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WELL AMB 9D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	23		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	1.7E+00±8.0E-01		pCi/L	0	GE

WELL AMB 10A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103326.4 E51410	33.338163 °N 81.732180 °W	111.4-106.4 ft msl	366.5 ft msl	4" PVC	Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 149.18 ft (45.47 m) below TOC
 Water elevation: 217.32 ft (66.24 m) msl
 Sp. conductance: 901 µS/cm
 Water evacuated before sampling: 75 gal
 The well went dry during purging.

Time: 7:20
 pH: 11.7
 Alkalinity: 221 mg/L
 Water temperature: 19.1°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<0.75		MSL	0	SP
•		pH	12	J	pH	2	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	850		µS/cm	2	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acetone	<100		µg/L	0	GE
		Acetone	<100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		2-Acetylaminofluorene	<10	J1	µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		4-Aminobiphenyl	<10	J1	µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	121		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzidine	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10	J1	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	<10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	<10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	<10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	<10	J1	µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE
		Diphenylamine	<10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	<10	J1	µg/L	0	GE
		Disulfoton	<10	J1	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10	J1	µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	9.1		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	2.7	J2	µg/L	0	GE
		Methyl ethyl ketone	3.4	J2	µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE

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WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Propionitrile	<200		µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotepp	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	4.8		µg/L	0	GE
		Toluene	5.1		µg/L	0	GE
		Toluene	5.3		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total dissolved solids	214,000	V	µg/L	0	GE
•		Total organic carbon	2,000	J6	µg/L	0	GE
		Total organic halogens	9.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 10A collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4,5-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	< 10	J1	µg/L	0	GE
		Vanadium	19		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	2.9E+00 ± 1.1E+00		pCi/L	1	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE

WELL AMB 10B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103337.3	33.338201 °N	154.3-149.3 ft msl	366.4 ft msl	4" PVC	Congaree (IIA)
E51418.3	81.732180 °W				

FIELD MEASUREMENTS

Sample date: 07/22/92
 Depth to water: 144.04 ft (43.90 m) below TOC
 Water elevation: 222.36 ft (67.78 m) msl
 Sp. conductance: 105 µS/cm
 Water evacuated before sampling: 198 gal

Time: 14:20
 pH: 6.6
 Alkalinity: 40 mg/L
 Water temperature: 22.0°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	< 0.15		MSL	0	SP
•		pH	7.3	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	120		µS/cm	0	GE
		Acenaphthene	< 10		µg/L	0	GE
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10		µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Aldrin	<0.050		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		4-Aminobiphenyl	<10	J1	µg/L	0	GE
		Aniline	<10	J1	µg/L	0	GE
		Anthracene	<10		µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Aramite	<10	J1	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	27		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benidine	<10		µg/L	0	GE
		Benzo[a]anthracene	<10		µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10		µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10		µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10		µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10		µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10		µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10		µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
•		para-Chloro-meta-cresol	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10	J6	µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
•		2-Chlorophenol	<10	J6	µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10		µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Di-n-butyl phthalate	<10		µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,2-Dichlorobenzene	<1.0		µg/L	0	GE
		1,2-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	<1.0		µg/L	0	GE
		1,3-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	<1.0		µg/L	0	GE
		1,4-Dichlorobenzene	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10		µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.3		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
•		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenol	<10	J6	µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
•		2,4-Dimethyl phenol	<10	J6	µg/L	0	GE
		Dimethyl phthalate	<10		µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	<10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	<10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	<10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	<10	J1	µg/L	0	GE
•		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrophenol	<45	J6	µg/L	0	GE
		2,4-Dinitrotoluene	<10		µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10		µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10		µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE
		Diphenylamine	<10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	<10		µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Disulfoton	<10	J1	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10		µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10		µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10		µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10		µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	4.3		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE
		Isophorone	<10		µg/L	0	GE
		Isophorone	<10	J1	µg/L	0	GE
		Isosafrole	<10	J1	µg/L	0	GE
		Kepone	<10	J1	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lindane	<0.0050		µg/L	0	GE
		Manganese	23		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
•		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10	J6	µg/L	0	GE
		Methyl ethyl ketone	1.2	J2	µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10		µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
•		2-Nitrophenol	<10	J6	µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
•		4-Nitrophenol	<10	J6	µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10		µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10		µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10		µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE

• = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
•		Pentachlorophenol	<10	J6	µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10		µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
•		Phenol	<10	J6	µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE

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WELL AMB 10B collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Total dissolved solids	72,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	7.2		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
•		2,4,6-Trichlorophenol	<10	J6	µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	4.3		µg/L	0	GE
		Zinc	4.4		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
■		Total alpha-emitting radium	8.9E+00 ± 1.8E+00		pCi/L	2	GE
		Tritium	1.8E+00 ± 3.0E-01		pCi/mL	0	GE

WELL AMB 10D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103293.4 E51456	33.338166 °N 81.731995 °W	239.4-219.4 ft msl	365.5 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/22/92
 Depth to water: 131.24 ft (40.00 m) below TOC
 Water elevation: 234.26 ft (71.40 m) msl
 Sp. conductance: 52 µS/cm
 Water evacuated before sampling: 64 gal

Time: 14:00
 pH: 5.5
 Alkalinity: 12 mg/L
 Water temperature: 20.8°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acetone	<100		µg/L	0	GE

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WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acetone	<100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		2-Acetylaminofluorene	<10	J1	µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		4-Aminobiphenyl	<10	J1	µg/L	0	GE
		Aniline	<10	J1	µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Aramite	<10	J1	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	4.2		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE

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WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Chlorobenzilate	< 10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10	J1	µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		2-Chloronaphthalene	< 10	J1	µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10	J1	µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10	J1	µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	< 10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	< 10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE

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WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	<10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	<10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	<10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	<10	J1	µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE
		Diphenylamine	<10	J1	µg/L	0	GE
		Disulfoton	<10	J1	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	12		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	179		µg/L	0	GE
		Manganese	9.5		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 1.0	J2	µg/L	0	GE
		Methyl ethyl ketone	< 1.0	J2	µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomorpholine	< 10	J1	µg/L	0	GE
		N-Nitrosopiperidine	< 10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	< 10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	< 10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE

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WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE

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WELL AMB 10D collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	3.1		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	1.3E+00 ± 7.0E-01		pCi/L	0	GE

WELL AMB 10DD

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103278.7 E51456	33.338133 °N 81.731966 °W	358.6-338.6 ft msl	365.4 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/22/92
 Depth to water: 6.79 ft (2.07 m) below TOC
 Water elevation: 358.61 ft (109.31 m) msl
 Sp. conductance: 149 µS/cm
 Water evacuated before sampling: 53 gal

Time: 14:40
 pH: 6.3
 Alkalinity: 68 mg/L
 Water temperature: 21.9°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	<10		µg/L	0	GE
		Acenaphthylene	<10		µg/L	0	GE
		Acetone	<100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetophenone	<10		µg/L	0	GE
		2-Acetylaminofluorene	<10		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE

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WELL AMB 10DD collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10		µg/L	0	GE
		Aniline	< 10		µg/L	0	GE
		Anthracene	< 10		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10		µg/L	0	GE
		Arsenic	4.4		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzo[a]anthracene	< 10		µg/L	0	GE
		Benzo[b]fluoranthene	< 10		µg/L	0	GE
		Benzo[k]fluoranthene	< 10		µg/L	0	GE
		Benzo[g,h,i]perylene	< 10		µg/L	0	GE
		Benzo[a]pyrene	< 10		µg/L	0	GE
		Benzyl alcohol	< 10		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10		µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10		µg/L	0	GE
		Butylbenzyl phthalate	< 10		µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzilate	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		2-Chloronaphthalene	< 10		µg/L	0	GE
		2-Chlorophenol	< 10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	< 10		µg/L	0	GE
		Chloroprene	< 200		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chrysene	< 10		µg/L	0	GE
		Cobalt	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	< 10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	< 10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	< 10		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		p,p'-DDD	< 0.10		µg/L	0	GE
		p,p'-DDE	< 0.10		µg/L	0	GE

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WELL AMB 10DD collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		p,p'-DDT	< 0.10		µg/L	0	GE
		Diallate	< 10		µg/L	0	GE
		Dibenz[a,h]anthracene	< 10		µg/L	0	GE
		Dibenzofuran	< 10		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10		µg/L	0	GE
		1,2-Dichlorobenzene	< 10		µg/L	0	GE
		1,3-Dichlorobenzene	< 10		µg/L	0	GE
		1,4-Dichlorobenzene	< 10		µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10		µg/L	0	GE
		Dimethoate	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10		µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10		µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10		µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10		µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10		µg/L	0	GE
		1,3-Dinitrobenzene	< 10		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10		µg/L	0	GE
		2,6-Dinitrotoluene	< 10		µg/L	0	GE
		Di-n-octyl phthalate	< 10		µg/L	0	GE
		1,4-Dioxane	< 10		µg/L	0	GE
		Diphenylamine	< 10		µg/L	0	GE
		Disulfoton	< 10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10		µg/L	0	GE
		Ethyl methanesulfonate	< 10		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10		µg/L	0	GE
		Fluoranthene	< 10		µg/L	0	GE
		Fluorene	< 10		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE

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WELL AMB 10DD collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10		µg/L	0	GE
		Hexachlorobutadiene	<10		µg/L	0	GE
		Hexachlorocyclopentadiene	<10		µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10		µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10		µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10		µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	6,460		µg/L	2	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10		µg/L	0	GE
		Isophorone	<10		µg/L	0	GE
		Isosafrole	<10		µg/L	0	GE
		Kepone	<10		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	493		µg/L	0	GE
		Manganese	322		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0	J2	µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10		µg/L	0	GE
		Methyl methanesulfonate	<10		µg/L	0	GE
		3-Methylcholanthrene	<10		µg/L	0	GE
		2-Methylnaphthalene	<10		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		1,4-Napthoquinone	<10		µg/L	0	GE
		1-Naphthylamine	<10		µg/L	0	GE
		2-Naphthylamine	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10		µg/L	0	GE
		3-Nitroaniline	<10		µg/L	0	GE
		4-Nitroaniline	<10		µg/L	0	GE
		Nitrobenzene	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10		µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10		µg/L	0	GE
		N-Nitrosodiethylamine	<10		µg/L	0	GE
		N-Nitrosodimethylamine	<10		µg/L	0	GE
		N-Nitrosodiphenylamine	<10		µg/L	0	GE
		N-Nitrosodipropylamine	<10		µg/L	0	GE
		N-Nitrosomethylethylamine	<10		µg/L	0	GE

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WELL AMB 10DD collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		N-Nitrosomorpholine	< 10		µg/L	0	GE
		N-Nitrosopiperidine	< 10		µg/L	0	GE
		N-Nitrosopyrrolidine	< 10		µg/L	0	GE
		5-Nitro-o-toluidine	< 10		µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	< 10		µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	< 0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	< 0.0010		µg/L	0	GE
		Parathion	< 0.050		µg/L	0	GE
		Parathion methyl	< 0.050		µg/L	0	GE
		PCB 1016	< 0.50		µg/L	0	GE
		PCB 1221	< 0.50		µg/L	0	GE
		PCB 1232	< 0.50		µg/L	0	GE
		PCB 1242	< 0.50		µg/L	0	GE
		PCB 1248	< 0.50		µg/L	0	GE
		PCB 1254	< 0.50		µg/L	0	GE
		PCB 1260	< 0.50		µg/L	0	GE
		Pentachlorobenzene	< 10		µg/L	0	GE
		1,2,3,7,8-PCDD	< 0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	< 0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	< 0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	< 0.00055		µg/L	0	GE
		Pentachloroethane	< 10		µg/L	0	GE
		Pentachloronitrobenzene	< 10		µg/L	0	GE
		Pentachlorophenol	< 10		µg/L	0	GE
		Phenacetin	< 10		µg/L	0	GE
		Phenanthrene	< 10		µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		p-Phenylenediamine	< 10		µg/L	0	GE
		Phorate	< 0.10		µg/L	0	GE
		2-Picoline	< 10		µg/L	0	GE
		Pronamid	< 10		µg/L	0	GE
		Propionitrile	< 200		µg/L	0	GE
		Pyrene	< 10		µg/L	0	GE
		Pyridine	< 10		µg/L	0	GE
		Safrole	< 10		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Styrene	< 1.0		µg/L	0	GE
		Sulfide	< 1,000		µg/L	0	GE
		Sulfotep	< 10		µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	< 10		µg/L	0	GE
		2,3,7,8-TCDD	< 0.00045		µg/L	0	GE
		2,3,7,8-TCDF	< 0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	< 10		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thionazin	< 10		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		o-Toluidine	< 10		µg/L	0	GE
		Total organic carbon	1,480		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE

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WELL AMB 10DD collected on 07/22/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE

WELL AMB 11B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103154.2	33.338615 °N	184.5-174.5 ft msl	364.6 ft msl	4" PVC	Congaree (IIA)
E51919.5	81.730503 °W				

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 142.83 ft (43.54 m) below TOC
 Water elevation: 221.77 ft (67.60 m) msl
 Sp. conductance: 71 µS/cm
 Water evacuated before sampling: 124 gal

Time: 16:05
 pH: 6.0
 Alkalinity: 19 mg/L
 Water temperature: 20.5°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<1.0		MSL	0	SP
•		pH	6.6	J	pH	0	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	70		µS/cm	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acenaphthylene	<10	J1	µg/L	0	GE
		Acetone	<100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	<1.0		µg/L	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		2-Acetylaminofluorene	<10	J1	µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrolein	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE
		Acrylonitrile	<20		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Aldrin	<0.050		µg/L	0	GE
		Aldrin	<0.050		µg/L	0	GE
		Allyl chloride	<50		µg/L	0	GE
		4-Aminobiphenyl	<10	J1	µg/L	0	GE
		Aniline	<10	J1	µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Anthracene	<10	J1	µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Aramite	<10	J1	µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	36		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		alpha-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		beta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		delta-Benzene hexachloride	<0.050		µg/L	0	GE
		Benzidine	<10	J1	µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[a]anthracene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzo[a]pyrene	<10	J1	µg/L	0	GE
		Benzyl alcohol	<10	J1	µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Beryllium	<3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethoxy) methane	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	<10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	<1.0		µg/L	0	GE
		1,2-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	<1.0		µg/L	0	GE
		1,3-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	<1.0		µg/L	0	GE
		1,4-Dichlorobenzene	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.6	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	<10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	<10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	<10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	<10	J1	µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Diphenylamine	< 10	J1	µg/L	0	GE
		1,2-Diphenylhydrazine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10	J1	µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	52		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Manganese	6.1		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	1.3	J2	µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotepp	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE

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WELL AMB 11B collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Thionazin	< 10	J1	µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		o-Toluidine	< 10	J1	µg/L	0	GE
		Total dissolved solids	56,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	< 10	J1	µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	5.8		µg/L	0	GE
		Zinc	5.9		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	1.0E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE

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WELL AMB 11D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103132.3 E51932.6	33.338588 °N 81.730426 °W	240.5-220.5 ft msl	364 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/23/92
 Depth to water: 128.52 ft (39.17 m) below TOC
 Water elevation: 235.48 ft (71.78 m) msl
 Sp. conductance: 96 μ S/cm
 Water evacuated before sampling: 78 gal

Time: 15:35
 pH: 6.2
 Alkalinity: 21 mg/L
 Water temperature: 21.6°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10	J1	μ g/L	0	GE
		Acenaphthylene	< 10	J1	μ g/L	0	GE
		Acetone	< 100		μ g/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		μ g/L	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		2-Acetylaminofluorene	< 10	J1	μ g/L	0	GE
		Acrolein	< 20		μ g/L	0	GE
		Acrylonitrile	< 20		μ g/L	0	GE
		Aldrin	< 0.050		μ g/L	0	GE
		Allyl chloride	< 50		μ g/L	0	GE
		4-Aminobiphenyl	< 10	J1	μ g/L	0	GE
		Aniline	< 10	J1	μ g/L	0	GE
		Anthracene	< 10	J1	μ g/L	0	GE
		Antimony	< 2.0		μ g/L	0	GE
		Antimony	< 2.0		μ g/L	0	GE
		Aramite	< 10	J1	μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	15		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		alpha-Benzene hexachloride	< 0.050		μ g/L	0	GE
		beta-Benzene hexachloride	< 0.050		μ g/L	0	GE
		delta-Benzene hexachloride	< 0.050		μ g/L	0	GE
		Benzo[a]anthracene	< 10	J1	μ g/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	μ g/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	μ g/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	μ g/L	0	GE
		Benzo[a]pyrene	< 10	J1	μ g/L	0	GE
		Benzyl alcohol	< 10	J1	μ g/L	0	GE
		Beryllium	< 3.0		μ g/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	μ g/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	μ g/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		μ g/L	0	GE
		Bis(2-ethylhexyl) phthalate	15	J1	μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	μ g/L	0	GE
		Butylbenzyl phthalate	< 10	J1	μ g/L	0	GE

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WELL AMB 11D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10	J1	µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10	J1	µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.5	J2	µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE

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WELL AMB 11D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Dimethoate	< 10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	< 10	J1	µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10	J1	µg/L	0	GE
		Diphenylamine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10	J1	µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10	J1	µg/L	0	GE
		Ethyl methanesulfonate	< 10	J1	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10	J1	µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10	J1	µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10	J1	µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	65		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE

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WELL AMB 11D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Mercury	<0.20		µg/L	0	GE
		Methacrylonitrile	<50		µg/L	0	GE
		Methapyrilene	<10	J1	µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Methyl ethyl ketone	<1.0		µg/L	0	GE
		Methyl isobutyl ketone	<1.0		µg/L	0	GE
		Methyl methacrylate	<10	J1	µg/L	0	GE
		Methyl methanesulfonate	<10	J1	µg/L	0	GE
		3-Methylcholanthrene	<10	J1	µg/L	0	GE
		2-Methylnaphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		1,4-Naphthoquinone	<10	J1	µg/L	0	GE
		1-Naphthylamine	<10	J1	µg/L	0	GE
		2-Naphthylamine	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		2-Nitroaniline	<10	J1	µg/L	0	GE
		3-Nitroaniline	<10	J1	µg/L	0	GE
		4-Nitroaniline	<10	J1	µg/L	0	GE
		Nitrobenzene	<10	J1	µg/L	0	GE
		2-Nitrophenol	<10		µg/L	0	GE
		4-Nitrophenol	<10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	<10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE

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WELL AMB 11D collected on 07/23/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		p-Phenylenediamine	<10	J1	µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10	J1	µg/L	0	GE
		Pronamid	<10	J1	µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10	J1	µg/L	0	GE
		Safrole	<10	J1	µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10	J1	µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	<10		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Thionazin	<10	J1	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		o-Toluidine	<10	J1	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE

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WELL AMB 12D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103602.4 E51901.6	33.339576 °N 81.731422 °W	239.4-219.4 ft msl	369.8 ft msl	4" PVC	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 07/24/92	Time: 6:20
Depth to water: 135.68 ft (41.36 m) below TOC	pH: 5.5
Water elevation: 234.12 ft (71.36 m) msl	Alkalinity: 6 mg/L
Sp. conductance: 31 µS/cm	Water temperature: 19.5°C
Water evacuated before sampling: 49 gal	

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthene	< 10		µg/L	0	GE
		Acenaphthene	< 10	J1	µg/L	0	GE
		Acenaphthylene	< 10		µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10		µg/L	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		2-Acetylaminofluorene	< 10		µg/L	0	GE
		2-Acetylaminofluorene	< 10	J1	µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10		µg/L	0	GE
		4-Aminobiphenyl	< 10	J1	µg/L	0	GE
		Aniline	< 10		µg/L	0	GE
		Aniline	< 10	J1	µg/L	0	GE
		Anthracene	< 10		µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Aramite	< 10		µg/L	0	GE
		Aramite	< 10	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	4.7		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Benzo[a]anthracene	< 10		µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10		µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10		µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10		µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10		µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10		µg/L	0	GE
		Benzyl alcohol	< 10	J1	µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10		µg/L	0	GE
		4-Bromophenyl phenyl ether	< 10	J1	µg/L	0	GE
		Butylbenzyl phthalate	< 10		µg/L	0	GE
		Butylbenzyl phthalate	< 10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon disulfide	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		Chlordane	< 0.50		µg/L	0	GE
		4-Chloroaniline	< 10		µg/L	0	GE
		4-Chloroaniline	< 10	J1	µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzilate	< 10		µg/L	0	GE
		Chlorobenzilate	< 10	J1	µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		para-Chloro-meta-cresol	< 10		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10	J1	µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		Diallate	<10		µg/L	0	GE
		Diallate	<10	J1	µg/L	0	GE
		Dibenz[a,h]anthracene	<10		µg/L	0	GE
		Dibenz[a,h]anthracene	<10	J1	µg/L	0	GE
		Dibenzofuran	<10		µg/L	0	GE
		Dibenzofuran	<10	J1	µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	<1.0		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		1,2-Dibromoethane	<20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Dibromomethane (Methylene bromide)	<1.0		µg/L	0	GE
		Di-n-butyl phthalate	<10		µg/L	0	GE
		Di-n-butyl phthalate	<10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	<10		µg/L	0	GE
		1,2-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,3-Dichlorobenzene	<10		µg/L	0	GE
		1,3-Dichlorobenzene	<10	J1	µg/L	0	GE
		1,4-Dichlorobenzene	<10		µg/L	0	GE
		1,4-Dichlorobenzene	<10	J1	µg/L	0	GE
		3,3'-Dichlorobenzidine	<10		µg/L	0	GE
		3,3'-Dichlorobenzidine	<10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		trans-1,4-Dichloro-2-butene	<30		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE
		Dichlorodifluoromethane	<1.0		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.0	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.1	J2	µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,6-Dichlorophenol	<10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Dieldrin	<0.50		µg/L	0	GE
		Diethyl phthalate	<10		µg/L	0	GE
		Diethyl phthalate	<10	J1	µg/L	0	GE
		Dimethoate	<10		µg/L	0	GE
		Dimethoate	<10	J1	µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		2,4-Dimethyl phenol	<10		µg/L	0	GE
		Dimethyl phthalate	<10		µg/L	0	GE
		Dimethyl phthalate	<10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	<10		µg/L	0	GE
		p-Dimethylaminoazobenzene	<10	J1	µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10		µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	<10	J1	µg/L	0	GE
		3,3'-Dimethylbenzidine	<10		µg/L	0	GE
		3,3'-Dimethylbenzidine	<10	J1	µg/L	0	GE
		a,a-Dimethylphenethylamine	<10		µg/L	0	GE
		a,a-Dimethylphenethylamine	<10	J1	µg/L	0	GE
		1,3-Dinitrobenzene	<10		µg/L	0	GE
		1,3-Dinitrobenzene	<10	J1	µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrophenol	<45		µg/L	0	GE
		2,4-Dinitrotoluene	<10		µg/L	0	GE
		2,4-Dinitrotoluene	<10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	<10		µg/L	0	GE
		2,6-Dinitrotoluene	<10	J1	µg/L	0	GE
		Di-n-octyl phthalate	<10		µg/L	0	GE
		Di-n-octyl phthalate	<10	J1	µg/L	0	GE
		1,4-Dioxane	<10		µg/L	0	GE
		1,4-Dioxane	<10	J1	µg/L	0	GE
		Diphenylamine	<10		µg/L	0	GE
		Diphenylamine	<10	J1	µg/L	0	GE
		Disulfoton	<10		µg/L	0	GE
		Disulfoton	<10	J1	µg/L	0	GE
		Endosulfan I	<0.10		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Endosulfan I	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan II	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endosulfan sulfate	<0.10		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Endrin aldehyde	<0.10		µg/L	0	GE
		Ethyl methacrylate	<10		µg/L	0	GE
		Ethyl methacrylate	<10	J1	µg/L	0	GE
		Ethyl methanesulfonate	<10		µg/L	0	GE
		Ethyl methanesulfonate	<10	J1	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Famphur	<10		µg/L	0	GE
		Famphur	<10	J1	µg/L	0	GE
		Fluoranthene	<10		µg/L	0	GE
		Fluoranthene	<10	J1	µg/L	0	GE
		Fluorene	<10		µg/L	0	GE
		Fluorene	<10	J1	µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		Heptachlor epoxide	<0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	<0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	<0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	<0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	<0.00045		µg/L	0	GE
		Hexachlorobenzene	<10		µg/L	0	GE
		Hexachlorobenzene	<10	J1	µg/L	0	GE
		Hexachlorobutadiene	<10		µg/L	0	GE
		Hexachlorobutadiene	<10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	<10		µg/L	0	GE
		Hexachlorocyclopentadiene	<10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	<0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	<0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		Hexachloroethane	<10		µg/L	0	GE
		Hexachloroethane	<10	J1	µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachlorophene	<10		µg/L	0	GE
		Hexachloropropene	<10		µg/L	0	GE
		Hexachloropropene	<10	J1	µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		2-Hexanone	<1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	<10	J1	µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iodomethane (Methyl iodide)	<15		µg/L	0	GE
		Iron	7.6		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isobutyl alcohol	<100		µg/L	0	GE
		Isodrin	<10		µg/L	0	GE
		Isodrin	<10	J1	µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Isophorone	< 10		µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10		µg/L	0	GE
		Isosafrole	< 10	J1	µg/L	0	GE
		Kepone	< 10		µg/L	0	GE
		Kepone	< 10	J1	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	310		µg/L	0	GE
		Manganese	15		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10		µg/L	0	GE
		Methapyrilene	< 10	J1	µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	< 1.0		µg/L	0	GE
		Methyl ethyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10		µg/L	0	GE
		Methyl methacrylate	< 10	J1	µg/L	0	GE
		Methyl methanesulfonate	< 10		µg/L	0	GE
		Methyl methanesulfonate	< 10	J1	µg/L	0	GE
		3-Methylcholanthrene	< 10		µg/L	0	GE
		3-Methylcholanthrene	< 10	J1	µg/L	0	GE
		2-Methylnaphthalene	< 10		µg/L	0	GE
		2-Methylnaphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10		µg/L	0	GE
		1,4-Naphthoquinone	< 10	J1	µg/L	0	GE
		1-Naphthylamine	< 10		µg/L	0	GE
		1-Naphthylamine	< 10	J1	µg/L	0	GE
		2-Naphthylamine	< 10		µg/L	0	GE
		2-Naphthylamine	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10		µg/L	0	GE
		2-Nitroaniline	< 10	J1	µg/L	0	GE
		3-Nitroaniline	< 10		µg/L	0	GE
		3-Nitroaniline	< 10	J1	µg/L	0	GE
		4-Nitroaniline	< 10		µg/L	0	GE
		4-Nitroaniline	< 10	J1	µg/L	0	GE
		Nitrobenzene	< 10		µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10	J1	µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		N-Nitrosodi-n-butylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiethylamine	<10		µg/L	0	GE
		N-Nitrosodiethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodimethylamine	<10		µg/L	0	GE
		N-Nitrosodimethylamine	<10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	<10		µg/L	0	GE
		N-Nitrosodiphenylamine	<10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	<10		µg/L	0	GE
		N-Nitrosodipropylamine	<10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	<10		µg/L	0	GE
		N-Nitrosomethylethylamine	<10	J1	µg/L	0	GE
		N-Nitrosomorpholine	<10		µg/L	0	GE
		N-Nitrosomorpholine	<10	J1	µg/L	0	GE
		N-Nitrosopiperidine	<10		µg/L	0	GE
		N-Nitrosopiperidine	<10	J1	µg/L	0	GE
		N-Nitrosopyrrolidine	<10		µg/L	0	GE
		N-Nitrosopyrrolidine	<10	J1	µg/L	0	GE
		5-Nitro-o-toluidine	<10		µg/L	0	GE
		5-Nitro-o-toluidine	<10	J1	µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10		µg/L	0	GE
		O,O,O-Triethyl phosphorothioate	<10	J1	µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10		µg/L	0	GE
		Pentachlorobenzene	<10	J1	µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10		µg/L	0	GE
		Pentachloroethane	<10	J1	µg/L	0	GE
		Pentachloronitrobenzene	<10		µg/L	0	GE
		Pentachloronitrobenzene	<10	J1	µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10		µg/L	0	GE
		Phenacetin	<10	J1	µg/L	0	GE
		Phenanthrene	<10		µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Phenanthrene	< 10	J1	µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		Phenol	< 10		µg/L	0	GE
		p-Phenylenediamine	< 10		µg/L	0	GE
		p-Phenylenediamine	< 10	J1	µg/L	0	GE
		Phorate	< 0.10		µg/L	0	GE
		Phorate	< 0.10		µg/L	0	GE
		2-Picoline	< 10		µg/L	0	GE
		2-Picoline	< 10	J1	µg/L	0	GE
		Pronamid	< 10		µg/L	0	GE
		Pronamid	< 10	J1	µg/L	0	GE
		Propionitrile	< 200		µg/L	0	GE
		Propionitrile	< 200		µg/L	0	GE
		Pyrene	< 10		µg/L	0	GE
		Pyrene	< 10	J1	µg/L	0	GE
		Pyridine	< 10		µg/L	0	GE
		Pyridine	< 10	J1	µg/L	0	GE
		Safrole	< 10		µg/L	0	GE
		Safrole	< 10	J1	µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Styrene	< 1.0		µg/L	0	GE
		Styrene	< 1.0		µg/L	0	GE
		Sulfide	< 1,000		µg/L	0	GE
		Sulfide	< 1,000		µg/L	0	GE
		Sulfotepp	< 10		µg/L	0	GE
		Sulfotepp	< 10	J1	µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	< 10		µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	< 10	J1	µg/L	0	GE
		2,3,7,8-TCDD	< 0.00045		µg/L	0	GE
		2,3,7,8-TCDF	< 0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	< 10		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	< 10		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thionazin	< 10		µg/L	0	GE
		Thionazin	< 10	J1	µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		o-Toluidine	< 10		µg/L	0	GE
		o-Toluidine	< 10	J1	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE

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WELL AMB 12D collected on 07/24/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,6-Trichlorophenol	<10		µg/L	0	GE
		2,4,5-T	<0.090		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,2,3-Trichloropropane	<1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10		µg/L	0	GE
		1,3,5-Trinitrobenzene	<10	J1	µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Vinyl acetate	<1.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	9.2		µg/L	0	GE
		Gross alpha	2.3E+00 ± 1.5E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE
		Total alpha-emitting radium	<1.0E+00		pCi/L	0	GE

WELL AMB 13AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Formation</u>
N103082	33.337600 °N	110.9-100.9 ft msl	365.1 ft msl	4" PVC	Congaree (IIA)
E51396	81.731742 °W				

FIELD MEASUREMENTS

Sample date: 07/26/92
 Depth to water: 146.87 ft (44.77 m) below TOC
 Water elevation: 218.23 ft (66.52 m) msl
 Sp. conductance: 213 µS/cm
 Water evacuated before sampling: 67 gal
 The well went dry during purging.

Time: 7:50
 pH: 10.9
 Alkalinity: 96 mg/L
 Water temperature: 20.4°C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Asbestos	<0.60		MSL	0	SP
•		pH	11	J	pH	2	GE
•		pH	11	J	pH	2	GE
		Priority pollutant dioxin screen	N	T	Y/N	0	GE
		Specific conductance	240		µS/cm	0	GE
		Specific conductance	240		µS/cm	0	GE
		Acenaphthene	<10		µg/L	0	GE
		Acenaphthene	<10	J1	µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Acenaphthylene	< 10		µg/L	0	GE
		Acenaphthylene	< 10	J1	µg/L	0	GE
		Acetone	< 100		µg/L	0	GE
		Acetonitrile (Methyl cyanide)	< 1.0		µg/L	0	GE
		Acetophenone	< 10		µg/L	0	GE
		2-Acetylaminofluorene	< 10		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrolein	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Acrylonitrile	< 20		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Aldrin	< 0.050		µg/L	0	GE
		Allyl chloride	< 50		µg/L	0	GE
		4-Aminobiphenyl	< 10		µg/L	0	GE
		Aniline	< 10		µg/L	0	GE
		Anthracene	< 10		µg/L	0	GE
		Anthracene	< 10	J1	µg/L	0	GE
		Antimony	< 2.0	J1	µg/L	0	GE
		Antimony	< 2.0	J1	µg/L	0	GE
		Aramite	< 10		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	81		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		alpha-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		beta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		delta-Benzene hexachloride	< 0.050		µg/L	0	GE
		Benzidine	< 10	J1	µg/L	0	GE
		Benzo[a]anthracene	< 10		µg/L	0	GE
		Benzo[a]anthracene	< 10	J1	µg/L	0	GE
		Benzo[b]fluoranthene	< 10		µg/L	0	GE
		Benzo[b]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[k]fluoranthene	< 10		µg/L	0	GE
		Benzo[k]fluoranthene	< 10	J1	µg/L	0	GE
		Benzo[g,h,i]perylene	< 10		µg/L	0	GE
		Benzo[g,h,i]perylene	< 10	J1	µg/L	0	GE
		Benzo[a]pyrene	< 10		µg/L	0	GE
		Benzo[a]pyrene	< 10	J1	µg/L	0	GE
		Benzyl alcohol	< 10		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Beryllium	< 3.0		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10		µg/L	0	GE
		Bis(2-chloroethoxy) methane	< 10	J1	µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroethyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10		µg/L	0	GE
		Bis(2-chloroisopropyl) ether	< 10	J1	µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	< 10	J1	µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10		µg/L	0	GE
		4-Bromophenyl phenyl ether	<10	J1	µg/L	0	GE
		Butylbenzyl phthalate	<10		µg/L	0	GE
		Butylbenzyl phthalate	<10	J1	µg/L	0	GE
		2-sec-Butyl-4,6-dinitrophenol	<10		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Carbon disulfide	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		Chlordane	<0.50		µg/L	0	GE
		4-Chloroaniline	<10		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzilate	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		para-Chloro-meta-cresol	<10		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		2-Chloronaphthalene	<10		µg/L	0	GE
		2-Chloronaphthalene	<10	J1	µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		2-Chlorophenol	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10		µg/L	0	GE
		4-Chlorophenyl phenyl ether	<10	J1	µg/L	0	GE
		Chloroprene	<200		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chrysene	<10		µg/L	0	GE
		Chrysene	<10	J1	µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		o-Cresol (2-Methylphenol)	<10		µg/L	0	GE
		m-Cresol (3-Methylphenol)	<10		µg/L	0	GE
		p-Cresol (4-Methylphenol)	<10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDD	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDE	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE
		p,p'-DDT	<0.10		µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Diallate	< 10		µg/L	0	GE
		Dibenz[a,h]anthracene	< 10		µg/L	0	GE
		Dibenz[a,h]anthracene	< 10	J1	µg/L	0	GE
		Dibenzofuran	< 10		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,2-Dibromo-3-chloropropane	< 1.0		µg/L	0	GE
		1,2-Dibromoethane	< 20		µg/L	0	GE
		Dibromomethane (Methylene bromide)	< 1.0		µg/L	0	GE
		Di-n-butyl phthalate	< 10		µg/L	0	GE
		Di-n-butyl phthalate	< 10	J1	µg/L	0	GE
		1,2-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,2-Dichlorobenzene	< 10		µg/L	0	GE
		1,3-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,3-Dichlorobenzene	< 10		µg/L	0	GE
		1,4-Dichlorobenzene	< 1.0		µg/L	0	GE
		1,4-Dichlorobenzene	< 10		µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10		µg/L	0	GE
		3,3'-Dichlorobenzidine	< 10	J1	µg/L	0	GE
		trans-1,4-Dichloro-2-butene	< 30		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		Dichlorodifluoromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	J2	µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenol	< 10		µg/L	0	GE
		2,6-Dichlorophenol	< 10		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Dieldrin	< 0.50		µg/L	0	GE
		Diethyl phthalate	< 10		µg/L	0	GE
		Diethyl phthalate	< 10	J1	µg/L	0	GE
		Dimethoate	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		2,4-Dimethyl phenol	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10		µg/L	0	GE
		Dimethyl phthalate	< 10	J1	µg/L	0	GE
		p-Dimethylaminoazobenzene	< 10		µg/L	0	GE
		7,12-Dimethylbenz[a]anthracene	< 10		µg/L	0	GE
		3,3'-Dimethylbenzidine	< 10		µg/L	0	GE
		a,a-Dimethylphenethylamine	< 10		µg/L	0	GE
		1,3-Dinitrobenzene	< 10		µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrophenol	< 45		µg/L	0	GE
		2,4-Dinitrotoluene	< 10		µg/L	0	GE
		2,4-Dinitrotoluene	< 10	J1	µg/L	0	GE
		2,6-Dinitrotoluene	< 10		µg/L	0	GE
		2,6-Dinitrotoluene	< 10	J1	µg/L	0	GE
		Di-n-octyl phthalate	< 10		µg/L	0	GE
		Di-n-octyl phthalate	< 10	J1	µg/L	0	GE
		1,4-Dioxane	< 10		µg/L	0	GE
		Diphenylamine	< 10		µg/L	0	GE
		1,2-Diphenylhydrazine	< 10	J1	µg/L	0	GE
		Disulfoton	< 10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan I	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan II	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endosulfan sulfate	< 0.10		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Endrin aldehyde	< 0.10		µg/L	0	GE
		Ethyl methacrylate	< 10		µg/L	0	GE
		Ethyl methanesulfonate	< 10		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Famphur	< 10		µg/L	0	GE
		Fluoranthene	< 10		µg/L	0	GE
		Fluoranthene	< 10	J1	µg/L	0	GE
		Fluorene	< 10		µg/L	0	GE
		Fluorene	< 10	J1	µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		Heptachlor epoxide	< 0.050		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDD	< 0.00065		µg/L	0	GE
		Heptachlorodibenzo-p-dioxin isomers	< 0.00065		µg/L	0	GE
		1,2,3,4,6,7,8-HPCDF	< 0.00045		µg/L	0	GE
		Heptachlorodibenzo-p-furan isomers	< 0.00045		µg/L	0	GE
		Hexachlorobenzene	< 10		µg/L	0	GE
		Hexachlorobenzene	< 10	J1	µg/L	0	GE
		Hexachlorobutadiene	< 10		µg/L	0	GE
		Hexachlorobutadiene	< 10	J1	µg/L	0	GE
		Hexachlorocyclopentadiene	< 10		µg/L	0	GE
		Hexachlorocyclopentadiene	< 10	J1	µg/L	0	GE
		1,2,3,4,7,8-HXCDD	< 0.00045		µg/L	0	GE
		Hexachlorodibenzo-p-dioxin isomers	< 0.00045		µg/L	0	GE
		1,2,3,4,7,8-HXCDF	< 0.00040		µg/L	0	GE
		Hexachlorodibenzo-p-furan isomers	< 0.00040		µg/L	0	GE
		Hexachloroethane	< 10		µg/L	0	GE
		Hexachloroethane	< 10	J1	µg/L	0	GE
		Hexachlorophene	< 10		µg/L	0	GE
		Hexachloropropene	< 10		µg/L	0	GE
		2-Hexanone	< 1.0		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10		µg/L	0	GE
		Indeno[1,2,3-c,d]pyrene	< 10	J1	µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iodomethane (Methyl iodide)	< 15		µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Isobutyl alcohol	< 100		µg/L	0	GE
		Isodrin	< 10		µg/L	0	GE
		Isophorone	< 10		µg/L	0	GE
		Isophorone	< 10	J1	µg/L	0	GE
		Isosafrole	< 10		µg/L	0	GE
		Kepone	< 10		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methacrylonitrile	< 50		µg/L	0	GE
		Methapyrilene	< 10		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		2-Methyl-4,6-dinitrophenol	< 10		µg/L	0	GE
		Methyl ethyl ketone	1.6	J2	µg/L	0	GE
		Methyl isobutyl ketone	< 1.0		µg/L	0	GE
		Methyl methacrylate	< 10		µg/L	0	GE
		Methyl methanesulfonate	< 10		µg/L	0	GE
		3-Methylcholanthrene	< 10		µg/L	0	GE
		2-Methylnaphthalene	< 10		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		1,4-Naphthoquinone	< 10		µg/L	0	GE
		1-Naphthylamine	< 10		µg/L	0	GE
		2-Naphthylamine	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		2-Nitroaniline	< 10		µg/L	0	GE
		3-Nitroaniline	< 10		µg/L	0	GE
		4-Nitroaniline	< 10		µg/L	0	GE
		Nitrobenzene	< 10		µg/L	0	GE
		Nitrobenzene	< 10	J1	µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		2-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitrophenol	< 10		µg/L	0	GE
		4-Nitroquinoline-1-oxide	< 10		µg/L	0	GE
		N-Nitrosodi-n-butylamine	< 10		µg/L	0	GE
		N-Nitrosodiethylamine	< 10		µg/L	0	GE
		N-Nitrosodimethylamine	< 10		µg/L	0	GE
		N-Nitrosodimethylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodiphenylamine	< 10		µg/L	0	GE
		N-Nitrosodiphenylamine	< 10	J1	µg/L	0	GE
		N-Nitrosodipropylamine	< 10		µg/L	0	GE
		N-Nitrosodipropylamine	< 10	J1	µg/L	0	GE
		N-Nitrosomethylethylamine	< 10		µg/L	0	GE
		N-Nitrosomorpholine	< 10		µg/L	0	GE
		N-Nitrosopiperidine	< 10		µg/L	0	GE
		N-Nitrosopyrrolidine	< 10		µg/L	0	GE
		5-Nitro-o-toluidine	< 10		µg/L	0	GE

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WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		O,O,O-Triethyl phosphorothioate	<10		µg/L	0	GE
		Octachlorodibenzo-p-dioxin isomers	<0.0010		µg/L	0	GE
		Octachlorodibenzo-p-furan isomers	<0.0010		µg/L	0	GE
		Parathion	<0.050		µg/L	0	GE
		Parathion methyl	<0.050		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1016	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1221	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1232	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1242	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1248	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1254	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		PCB 1260	<0.50		µg/L	0	GE
		Pentachlorobenzene	<10		µg/L	0	GE
		1,2,3,7,8-PCDD	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-dioxin isomers	<0.00055		µg/L	0	GE
		Pentachlorodibenzo-p-furan isomers	<0.00055		µg/L	0	GE
		1,2,3,7,8-PCDF	<0.00055		µg/L	0	GE
		Pentachloroethane	<10		µg/L	0	GE
		Pentachloronitrobenzene	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Pentachlorophenol	<10		µg/L	0	GE
		Phenacetin	<10		µg/L	0	GE
		Phenanthrene	<10		µg/L	0	GE
		Phenanthrene	<10	J1	µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		Phenol	<10		µg/L	0	GE
		p-Phenylenediamine	<10		µg/L	0	GE
		Phorate	<0.10		µg/L	0	GE
		2-Picoline	<10		µg/L	0	GE
		Pronamid	<10		µg/L	0	GE
		Propionitrile	<200		µg/L	0	GE
		Pyrene	<10		µg/L	0	GE
		Pyrene	<10	J1	µg/L	0	GE
		Pyridine	<10		µg/L	0	GE
		Safrole	<10		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Styrene	<1.0		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfide	<1,000		µg/L	0	GE
		Sulfotep	<10		µg/L	0	GE
		1,2,4,5-Tetrachlorobenzene	<10		µg/L	0	GE
		2,3,7,8-TCDD	<0.00045		µg/L	0	GE
		2,3,7,8-TCDF	<0.00040		µg/L	0	GE
		Tetrachlorodibenzo-p-dioxin isomers	<0.00045		µg/L	0	GE
		Tetrachlorodibenzo-p-furan isomers	<0.00040		µg/L	0	GE
		1,1,1,2-Tetrachloroethane	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded primary drinking water standard.

WELL AMB 13AR collected on 07/26/92, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		2,3,4,6-Tetrachlorophenol	< 10		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Thionazin	< 10		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	1.6		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		o-Toluidine	< 10		µg/L	0	GE
		Total dissolved solids	151,000	V	µg/L	0	GE
		Total organic carbon	1,000		µg/L	0	GE
		Total organic carbon	1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10		µg/L	0	GE
		1,2,4-Trichlorobenzene	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		2,4,5-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,6-Trichlorophenol	< 10		µg/L	0	GE
		2,4,5-T	< 0.090		µg/L	0	GE
		1,2,3-Trichloropropane	< 1.0		µg/L	0	GE
		1,3,5-Trinitrobenzene	< 10		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vinyl acetate	< 1.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Gross alpha	2.9E+00 ± 2.1E+00		pCi/L	0	GE
		Total alpha-emitting radium	2.4E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded primary drinking water standard.

Appendix E – Data Quality/Useability Assessment

Data Quality/Useability Assessment

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

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 provided to 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 analysis of matrix spike/matrix spike duplicate results. A sample is analyzed unspiked to determine a baseline. A second portion of sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically 5 compounds for volatile organic analyses, 11 for semivolatiles, 6 for pesticides, or all compounds for the metals and cyanide. The percentage of spike compound recovered (percent recovery) 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 in these reports as multiple entries for an analyte under a single table heading.

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 compound, 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	A total organic carbon (TOC) method; used for dissolved organic carbon (DOC) on filtered samples	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
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

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
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. Both primary laboratories, General Engineering Laboratories (GE) and Roy F. Weston, Inc. (Weston), use EPA Method 6010/200.7 (EPA 1986/EPA EMSL 1983), an inductively coupled plasma (ICP) atomic emission spectrometric method, for the analysis of trace elements, specifically metals.

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

ICP Precision and Accuracy Data

<u>Element</u>	<u>True value ($\mu\text{g/L}$)</u>	<u>Mean reported value ($\mu\text{g/L}$)</u>	<u>Mean percent RSD^a</u>
Beryllium	20	20	9.8
Manganese	15	15	6.7
Vanadium	70	69	2.9
Arsenic	22	19	23
Chromium	10	10	18
Copper	11	11	40
Iron	20	19	15
Aluminum	60	62	33
Cadmium	2.5	2.9	16
Cobalt	20	20	4.1
Nickel	30	28	11
Lead	24	30	32
Zinc	16	19	45
Selenium	6	8.5	42

^a Relative standard deviation. Note: When this table was printed in EPA (1986), the column heading was Mean Standard Deviation (%).

As another example, EPA Method 601/8010 (EPA 1991a/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

<u>Parameter</u>	<u>Accuracy as recovery ($\mu\text{g/L}$)</u>	<u>Single analyst precision ($\mu\text{g/L}$)^a</u>	<u>Overall precision ($\mu\text{g/L}$)^b</u>
Bromodichloromethane	$1.12C - 1.02^c$	$0.11\bar{X} + 0.04^d$	$0.20\bar{X} + 1.00$
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 ^e	$1.00C$	$0.20\bar{X}$	$0.35\bar{X}$
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 ^e	$1.00C$	$0.13\bar{X}$	$0.23\bar{X}$
cis-1,3-Dichloropropene ^e	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
trans-1,3-Dichloropropene ^e	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
Methylene chloride	$0.91C - 0.93$	$0.11\bar{X} + 0.33$	$0.21\bar{X} + 1.43$
1,1,2,2-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 Expected single analyst standard deviation of measurements.

^b Expected interlaboratory standard deviation of measurements.

^c C = true value for the concentration, in $\mu\text{g/L}$.

^d $\bar{X}$ = average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.

^e Estimates based on performance in a single laboratory.

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Appendix F – Time Series Plots

Time Series Plot of Field pH for AMB 4 Through AMB 7

Time Series Plot of Field pH for AMB 8D Through AMB 13AR

Time Series Plot of Field Specific Conductance for AMB 4 Through AMB 7

Time Series Plot of Field Specific Conductance for AMB 8D Through AMB 13AR

The values for AMB 10A are not plotted because they are so high they distort the scale.

Time Series Plot of Tetrachloroethylene for AMB 4 Through AMB 7

Time Series Plot of Tetrachloroethylene for AMB 8D Through AMB 13AR

Time Series Plot of Total Organic Carbon for AMB 4 Through AMB 7

Time Series Plot of Total Organic Carbon for AMB 8D Through AMB 13AR

Time Series Plot of Total Organic Halogens for AMB 4 Through AMB 7

Time Series Plot of Total Organic Halogens for AMB 8D Through AMB 13AR

Time Series Plot of Trichloroethylene for AMB 4 Through AMB 7

Time Series Plot of Trichloroethylene for AMB 8D Through AMB 13AR

Appendix G – Hydrographs

Hydrograph for AMB 4 Through AMB 7

Hydrograph for AMB 8D Through AMB 13AR

END DATE

6-11-93