

THE ENVIRONMENTAL PROTECTION DEPARTMENT  
ENVIRONMENTAL MONITORING SECTION

The Savannah River Site's  
Groundwater Monitoring Program

SECOND QUARTER 2001 (U)  
(April through June 2001)

Westinghouse Savannah River Company  
Savannah River Site  
Aiken, SC 29808





This document was prepared in conjunction with work accomplished under Contract No. DE-AC09-96SR18500 with the U.S. Department of Energy.

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Environmental Protection Department  
Westinghouse Savannah River Company  
Aiken, SC

and

ExR, Inc.  
Athens, GA

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Cover graphic supplied by R.A. Hiergesell  
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Environmental Sciences Section

**Publication Date: November 2001**

Westinghouse Savannah River Company  
Savannah River Site  
Aiken, SC 29808





## This Quarter at a Glance . . .

*Executive Summary*—table of all analytes detected at or above Flag 2 criteria

*Flagging Criteria*—standards for flagging results

*Sample Scheduling*—description of the sampling schedule

*Field Notes*—comments from the field-data books

*Analytical Data Review*—discrepancies in each laboratory's analytical data; laboratory-specific methods and estimated quantitation limits

*Quality Control Samples*—discussion of the quality of the analytical data in terms of precision, accuracy, representativeness, comparability, and completeness

*Site Index*—table of the well series and their site locations; also discusses the history of the sites

*Addendum*—results from Microseeps' first quarter 2001 ERA performance standards

*Appendices:*

A. *Water-Level Data*—tables listing field data obtained for hydrogeologic studies

B. *Analytical Results*—tables listing all verified and validated analytical results and field data for the quarter

C. *Sampling Blanks Results*—tables listing all verified and validated analytical results for sampling blanks for the quarter

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The Savannah River Site (SRS) was constructed to produce basic materials used in nuclear weapons, primarily tritium and plutonium-239. Five reactors—along with support facilities—were built to produce and purify these materials.

SRS is divided into the following areas, based on production and other functions:

- reactor materials area (M)
- reactor areas (C, K, L, P, and R)
- heavy water reprocessing area (D)
- separations areas (F and H)
- waste management areas (E, F, H, S, and Z)
- administration area (A)
- other areas (B, N, TNX, and G)

Since the end of the Cold War, SRS has shut down several facilities because of declining defense requirements. These included all five reactors and facilities in M Area, D Area, and TNX. However, E Area, S Area, and Z Area opened to support waste management activities.

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# Executive Summary

The Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) administers the Savannah River Site's (SRS) Groundwater Monitoring Program. During second quarter 2001, EPD/EMS conducted extensive sampling of monitoring wells.

EPD/EMS has established two sets of flagging criteria to assist in managing sample results. The flagging criteria do not define contamination levels; instead, they aid personnel in sample scheduling, data interpretation, and trend identification. Since 1991, the flagging criteria have been based on the U.S. Environmental Protection Agency (EPA) drinking water standards and on method detection limits. A detailed explanation of the flagging criteria is presented in the **Flagging Criteria** section of this document. Analytical results from first quarter 2001 are included in this report, an electronic copy of which is made available to all site custodians.

One or more analytes exceeded Flag 2 criteria during second quarter 2001 in 37 monitoring well series. Analytes exceeded the current Flag 2 criteria for the first time since 1984 in 9 of those 37 monitoring well series.

Table 1, organized alphabetically by well series, lists those well series with analytical results above Flag 2 criteria during second quarter 2001. Results from all laboratory analyses that underwent the standard verification and validation process are used to generate this table. Specific conductance and pH data from field measurements also are included in this table.

*Table 1. Analytes above Flag 2 Criteria*

<i>Site</i>	<i>Well Series</i>	<i>Analytes above Flag 2 Criteria</i>
A-Area Metals Burning Pit	ABP	pH, specific conductance, trichloroethylene
A-Area Burning/Rubble Pits	ARP	<b>Cis-1,2-dichloroethylene</b> , specific conductance, tetrachloroethylene, trichloroethylene
Mixed Waste Management Facility (Site 643-28E) and Low-Level Radioactive Waste Disposal Facility (643-7E)	BGO	Aluminum, aluminum (dissolved), boron, chloroethene, 1,1-dichloroethane, 1,1-dichloroethylene, dichloromethane, gross alpha, iron, iron (dissolved), lead, lithium, manganese, manganese (dissolved), mercury, mercury (dissolved), pH, radium-226, radium-228, radium (total alpha-emitting), specific conductance, strontium-90, tetrachloroethylene, total organic carbon, total organic halogens, trichloroethylene, tritium
Mixed Waste Management Facility Southwestern Plume Interim Measures Monitoring Wells	BSW	Benzene, boron, chloroethene, 1,1-dichloroethane, gross alpha, lithium, mercury, radium (total alpha-emitting), <b>strontium-90</b> , tetrachloroethylene, total organic carbon, total organic halogens, trichloroethylene, tritium
Chemicals, Metals, and Pesticides Pits Area	CMB	<b>Alpha-benzene hexachloride, carbon tetrachloride, chloroform, dichloromethane, lindane, 2,4,5-T, tetrachloroethylene, 1,1,2-trichloroethane, trichloroethylene</b>
Chemical, Metals, and Pesticides Pits	CMP	<b>Alpha-benzene hexachloride, delta-benzene hexachloride, lindane, 2,4,5-T, tetrachloroethylene, trichloroethylene</b>
D-Area Burning/Rubble Pits	DBP	Manganese
D-Area Coal Pile Runoff Containment Basin and Ash Basin	DCB	Specific conductance, sulfate



<i>Site</i>	<i>Well Series</i>	<i>Analytes above Flag 2 Criteria</i>
D-Area Oil Seepage Basin	DOB	Chloroethene, iron, tetrachloroethylene, total organic carbon, trichloroethylene
D-Area Expanded Operable Unit Area	DWP	<b>Specific conductance</b>
F-Area Seepage Basins Area	FBI	<b>Aluminum, aluminum (dissolved), americium-241, antimony, beryllium, beryllium (dissolved), cadmium, cobalt, cobalt (dissolved), curium-243/244, gross alpha, iodine-129, iron, lead, manganese, nickel, nitrate as nitrogen, nitrate-nitrite as nitrogen, nonvolatile beta, radium-226, radium-228, radium (total alpha-emitting), specific conductance, strontium-90, technetium-99, thallium, trichloroethylene, tritium, uranium-233/234, uranium-235, uranium-238</b>
F-Area Seepage Basins Remediation Extraction Well	FEX	Aluminum, <b>aluminum (dissolved)</b> , americium-241, cadmium, curium-243/244, gross alpha, iodine-129, manganese, <b>nitrate as nitrogen</b> , nitrate-nitrite as nitrogen, nonvolatile beta, radium-226, radium-228, <b>radium (total alpha-emitting)</b> , specific conductance, strontium-89/90, strontium-90, trichloroethylene, tritium, uranium-233/234, uranium-235, uranium-238
F-Area Seepage Basins Remediation Injection Tank	FIN	Aluminum, iodine-129, radium-226, specific conductance, strontium-89/90, uranium-233/234, uranium-238
F-Area Seepage Basins	FSB	Aluminum, aluminum (dissolved), americium-241, antimony, beryllium, beryllium (dissolved), cadmium, cobalt, cobalt (dissolved), curium-243/244, curium-245/246, gross alpha, iodine-129, iron, lead, manganese, mercury, nickel, nickel (dissolved), nitrate as nitrogen, nitrate-nitrite as nitrogen, nonvolatile beta, pH, radium-226, radium-228, radium (total alpha-emitting), specific conductance, strontium-90, thallium, thallium (dissolved), trichloroethylene, tritium, uranium-233/234, uranium-235, uranium-238
F-Area Inactive Process Sewer Line	FSL	Aluminum, gross alpha, nitrate-nitrite as nitrogen, nonvolatile beta, specific conductance, tritium
F-Area Sludge Land Application Site	FSS	Aluminum, iron, iron (dissolved), lead, lead (dissolved)
H-Area Seepage Basins Remediation Extraction Well	HEX	Aluminum, iodine-129, mercury, strontium-89/90, tritium
H-Area Seepage Basins Remediation Injection Tank	HIN	Iodine-129
H-Area Seepage Basins	HSB	Gross alpha, lithium, mercury, nitrate-nitrite as nitrogen, nonvolatile beta, pH, specific conductance, tritium
H-Area Inactive Process Sewer Line	HSL	Nonvolatile beta, tritium
K-Area Disassembly Basin	KDB	Tritium
K-Area Burning/Rubble Pit	KRP	Tetrachloroethylene, trichloroethylene
L-Area Research Wells	LAW	Tritium
L-Area Disassembly Basin	LDB	Tritium

## *Executive Summary*



<i>Site</i>	<i>Well Series</i>	<i>Analytes above Flag 2 Criteria</i>
B-Area Sanitary Landfill Area	LFP	<b>Chloroethene, 1,1-dichloroethane, 1,2-dichloroethylene, iron, lead, specific conductance, tetrachloroethylene, trichloroethylene</b>
Interim Sanitary Landfill	LFW	Benzene, chloroethene, 1,1-dichloroethane, <b>1,2-dichloroethylene</b> , dichloromethane, gross alpha, iron, tetrachloroethylene, trichloroethylene, trichlorofluoromethane, tritium
Miscellaneous Chemical Basin	MCB	Lead, pH, specific conductance, tetrachloroethylene, trichloroethylene
M-Area Hazardous Waste Management Facility (HWMF)	MSB	Tetrachloroethylene, trichloroethylene
P-Area Burning/Rubble Pit	PRP	1,1-dichloroethane, 1,1-dichloroethylene, trichloroethylene
A/M-Area Recovery Well Network	RWM	1,1-dichloroethylene, tetrachloroethylene, trichloroethylene
M-Area Southern Sector	SSM	Cis-1,2-dichloroethylene, pH, tetrachloroethylene, trichloroethylene
TNX Burying Ground	TBG	Gross alpha, tetrachloroethylene, trichloroethylene
TNX-Area Operable Unit	TCM	Trichloroethylene
TNX-Area Operable Unit	TIR	Trichloroethylene
TNX-Area Assessment Wells	TNX	Trichloroethylene
TNX-Area Recovery Wells	TRW	Trichloroethylene
Old TNX Seepage Basin	XSB	Trichloroethylene

Note: The groundwater samples are unfiltered. Therefore, the results for metals are for total recoverable metals. Analytes in bold were detected at levels above the current Flag 2 criteria for the first time since 1984.



*NOTES*



# Introduction

This report summarizes the Groundwater Monitoring Program conducted by SRS during second quarter 2001. It includes the analytical data, field data, data review, quality control, and other documentation for this program; provides a record of the program's activities; and serves as an official record of the analytical results.

EPD/EMS is responsible for providing drilling, sampling, and analytical and data management support for the SRS Groundwater Monitoring Program at approximately 135 waste sites in 17 areas at SRS (see figures 1 and 2 at the end of this section). The majority of this monitoring is required by U.S. Department of Energy (DOE) orders and by federal and state regulations administered by the USEPA and the South Carolina Department of Health and Environmental Control (SCDHEC). The Groundwater Monitoring Program includes the following activities:

- installation, maintenance, and abandonment of monitoring wells
- environmental soil borings
- development of sampling and analytical schedules
- collection and analysis of groundwater samples
- review of analytical and other data
- maintenance of the databases containing groundwater monitoring data
- quality assurance (QA) evaluations of laboratory performance
- reports of results to waste-site facility custodians and the Environmental Protection Department

The custodian of each waste site is responsible for informing EPD/EMS of sampling and analytical requirements and special requests for the sampling schedule, assisting in review of the data, and making any decisions regarding groundwater monitoring at the waste site.

Each custodian has access to an electronic copy of this report. Each custodian also receives site-specific data on request.

## ORGANIZATION OF THIS REPORT

This report is divided into sections that focus on specific aspects of the SRS Groundwater Monitoring Program. The **Executive Summary** section presents a listing by waste site and well series of all analytes detected at or above Flag 2 criteria during the quarter. Analytes detected at or above Flag 2 criteria for the first time since 1984 are indicated in bold type.

The **Flagging Criteria** section lists flagging criteria for analytes and provides a short description of how the criteria were derived. The **Sample Scheduling** section discusses the preparation of the sampling schedule and the criteria for analyte selection.

During sample collection, samplers write comments in the field logbooks that may be pertinent to the analysis of samples. Many of the comments concern wells that went dry during sampling or water that appeared colored, turbid, or aerated. These comments are included in the **Field Notes** section.

Samples are analyzed by the EPD/EMS (EM Lab or EM) Radiological Laboratory at SRS and by one or more off-site laboratories. During second quarter 2001, General Engineering Laboratories (GE), of Charleston, SC; GE Mobile Laboratory (ML) at SRS; and Lionville Laboratory (WA), of Lionville, PA, were the primary off-site laboratories. Radionuclide analyses were conducted by Environmental Physics, Inc. (GP), for GE, and Thermo



NUtech (TM), a subcontractor for WA. In addition, Sanford Cohen and Associates (SC), of Birmingham, AL, performed selected radionuclide analyses.

The **Analytical Data Review** section contains three subsections. The **GIMS Data Review Module** subsection discusses automated data management activities at EPD/EMS. The **Review of the Analytical Data** subsection includes a discussion of discrepancies in each laboratory's analytical data, including results that were considerably higher or lower than previous results. This subsection also includes information about the analytical narratives that were used as reference materials throughout the data validation process. The **Analytical Methods** subsection lists the methods the laboratories used for measuring concentrations of each analyte.

The **Quality Control Samples** section contains five subsections and discusses the analytical data in terms of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. The **Precision** subsection explains the replicate analysis program, gives the statistical methods used for comparison, and lists the results of the comparisons between the replicate and duplicate analyses. The **Accuracy** subsection examines the relationship between an observed value and an accepted reference value and/or the measure of the over- or underestimation of reported concentrations. The **Representativeness** subsection describes how ground-water samples can be affected to produce results that may be biased positively or negatively. The **Comparability** subsection discusses whether the laboratories use the same standardized procedures for sample preparation and analysis, whether the reporting units are the same, and whether similar quantitation limits were obtained. The **Completeness** section evaluates the amount of useable data that resulted from the data collection.

The **Site Index** section lists and gives a description of the sites associated with each well series, as well as historical information for the sites. A list of terms, abbreviations, and acronyms used in this report can be found in the **Glossary** section. References cited are included in the **References** section. The **Water-Level Data** section (**Appendix A**) includes concurrent water elevations obtained in A/M and other areas; these data are used by SRS personnel in hydrogeologic studies. The **Analytical Results** section (**Appendix B**) includes tables listing the verified and validated analytical results from all laboratories and field data for all wells sampled during the quarter. The tables appear in alphabetical order by well name. The **Sampling Blanks Results** section (**Appendix C**) contains tables listing the analytical results of laboratory tests on sampling blanks.



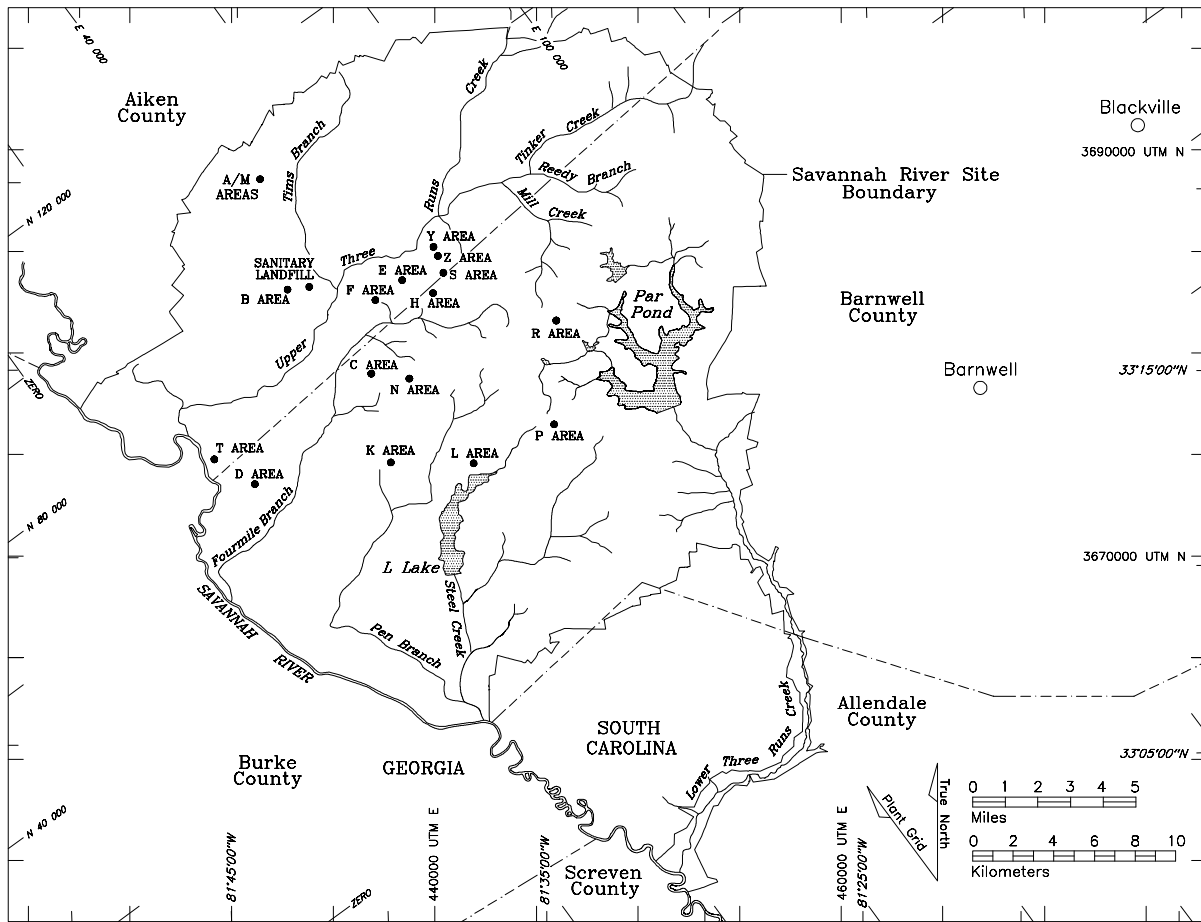


Figure 1. Areas and Locations Monitored for Groundwater Quality



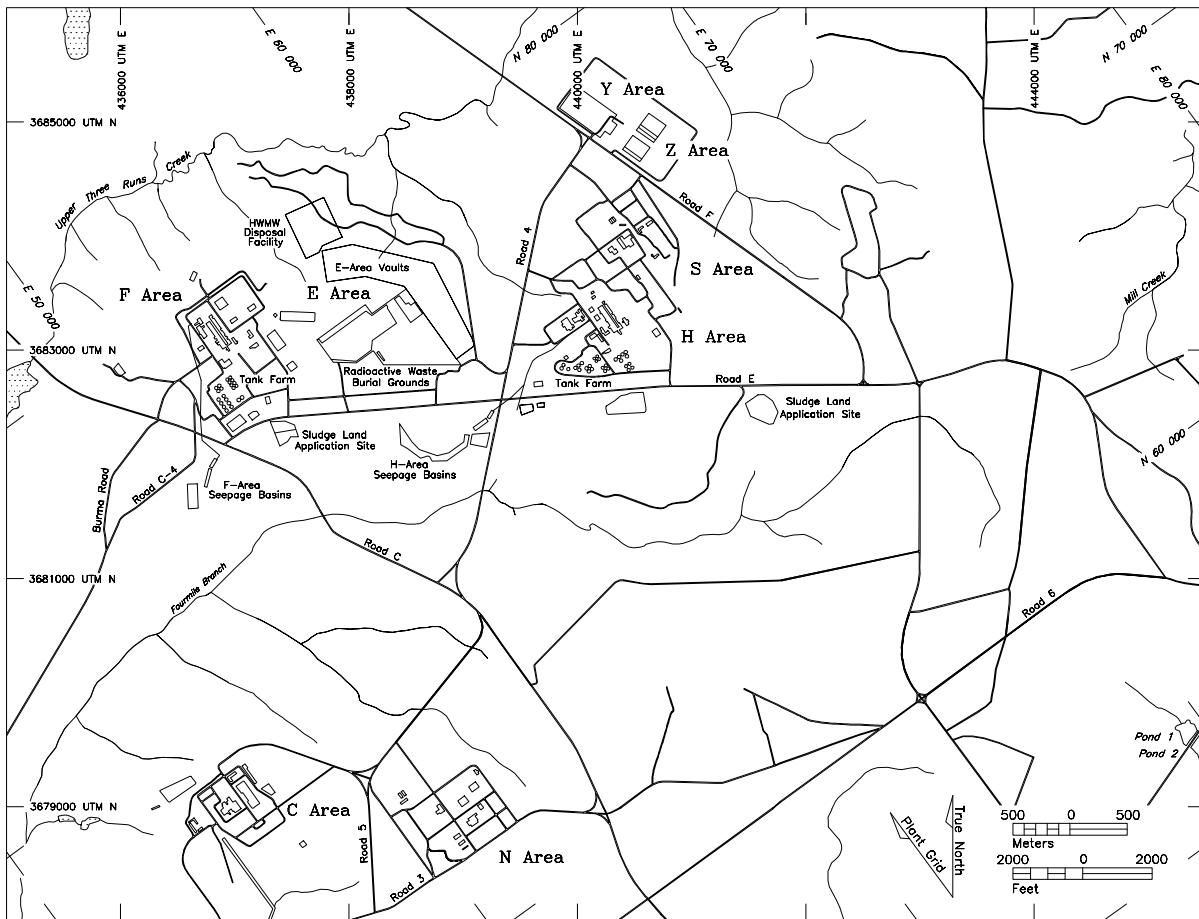


Figure 2. Separations and Waste Management Areas Monitored for Groundwater Quality



# Flagging Criteria

Analytes in the data tables are assigned flagging levels (0, 1, or 2) depending on their concentrations in a groundwater sample. The flagging levels dictate the scheduling and frequency of groundwater sampling. Beginning first quarter 1992, flagging criteria were established for all of the constituents currently being analyzed as part of the EPD/EMS Groundwater Monitoring Program, except for certain aesthetic constituents, indicator parameters, major cations, and common laboratory contaminants and cleaners, which can be analyzed by special request. The flagging criteria in table 2 were determined as follows:

*Flag 0:* Analytical results below Flag 1 and constituents having no flagging criteria were classified as Flag 0.

*Flag 1:* The Flag 1 criterion for a constituent was set as one-half of the EPA final primary drinking water standard, the EPA proposed primary drinking water standard, or the EPA secondary drinking water standard for that constituent. If a constituent did not have an EPA drinking water standard, the Flag 1 criterion was set as five times a recently published 90th percentile detection limit obtained by one of the primary laboratories.

*Flag 2:* The Flag 2 criterion for a constituent was set as the EPA final primary drinking water standard, the EPA proposed primary drinking water standard, or the EPA secondary drinking water standard for that constituent. If a constituent did not have a drinking water standard, the Flag 2 criterion was set as 10 times a recently published 90th percentile detection limit obtained by one of the primary laboratories.

The following acronyms are used as abbreviated sources in the flagging criteria table. Complete information concerning documents cited can be found in the **References** section of this report.

APHA — American Public Health Association.

APHA Method — A specific analytical method for testing constituent levels in a sample as established by the APHA, American Water Works Association, and Water Pollution Control Federation. See American Public Health Association et al. in **References**.

EPA — U.S. Environmental Protection Agency.

EPA Method — A specific analytical method for testing constituent levels. Descriptions of these methods can be found in the EPA publications *Methods for Chemical Analysis of Water and Wastes* (1983) and *Test Methods for Evaluating Solid Waste* (1986b) and in the 1991 *Code of Federal Regulations*, Title 40, Part 136. See Environmental Protection Agency in **References**.

EPD/EMS — The Environmental Protection Department/Environmental Monitoring Section at the Savannah River Site.

PDWS — Primary Drinking Water Standards.

SCDHEC — South Carolina Department of Health and Environmental Control.

SDWS — Secondary Drinking Water Standards.



Table 2. *Flagging Criteria*

<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Acenaphthene	g/L	5.1	10.2	EPA Method 8270
Acenaphthylene	g/L	5.1	10.2	EPA Method 8270
Acetone	g/L	500	1,000	Set by EPD/EMS
Acetonitrile (Methyl cyanide)	g/L	50	100	EPA Method 8240
Acetophenone	g/L	85	170	EPA Method 8270
2-Acetylaminofluorene	g/L	81	162	EPA Method 8270
Acrolein	g/L	166.5	333	EPA Method 8240
Acrylonitrile	g/L	250	500	EPA Method 8240
Actinium-228	µi/mL	1.64E-06	3.27E-06	Proposed PDWS (EPA, 1991c)
Alachlor	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Aldicarb	g/L	1.5	3.0	Final PDWS (EPA, 2001a)
Aldicarb sulfone	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Aldicarb sulfoxide	g/L	2.0	4.0	Final PDWS (EPA, 2001a)
Aldrin	g/L	0.4	0.8	EPA Method 8080
Alkalinity (as CaCO <sub>3</sub> )		No flag	No flag	Set by EPD/EMS
Allyl chloride	g/L	416.5	833	EPA Method 8240
Aluminum	g/L	25	50	SDWS (EPA, 2001b)
Aluminum, dissolved	g/L	25	50	SDWS (EPA, 2001b)
Aluminum, total recoverable	g/L	25	50	SDWS (EPA, 2001b)
Americium-241	µi/mL	3.17E-09	6.34E-09	Proposed PDWS (EPA, 1991c)
Americium-243	µi/mL	3.19E-09	6.37E-09	Proposed PDWS (EPA, 1991c)
4-Aminobiphenyl	g/L	81	162	EPA Method 8270
Ammonia	g/L	250	500	APHA Method 417B
Ammonia nitrogen	g/L	500	1,000	EPA Method 350.1
Aniline	g/L	81	162	EPA Method 8270
Anthracene	g/L	5.1	10.2	EPA Method 8270
Antimony	g/L	3.0	6.0	Final PDWS (EPA, 2001a)
Antimony, dissolved	g/L	3.0	6.0	Final PDWS (EPA, 2001a)
Antimony, total recoverable	g/L	3.0	6.0	Final PDWS (EPA, 2001a)
Antimony-124	µi/mL	3.0E-08	6.0E-08	Interim Final PDWS (EPA, 1977)
Antimony-125	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Aramite	g/L	81	162	EPA Method 8270
Arsenic	g/L	25	50	Final PDWS (EPA, 2001a)
Arsenic, dissolved	g/L	25	50	Final PDWS (EPA, 2001a)
Arsenic, total recoverable	g/L	25	50	Final PDWS (EPA, 2001a)
Asbestos	Fibers/L	3,500,000	7,000,000	Final PDWS (EPA, 2001a)
Atrazine	g/L	1.5	3.0	Final PDWS (EPA, 2001a)
Azobenzene	g/L	50	100	EPA Method 625
Barium	g/L	1,000	2,000	Final PDWS (EPA, 2001a)
Barium, dissolved	g/L	1,000	2,000	Final PDWS (EPA, 2001a)
Barium, total recoverable	g/L	1,000	2,000	Final PDWS (EPA, 2001a)
Barium-133	µi/mL	7.60E-07	1.52E-06	Proposed PDWS (EPA, 1991c)
Barium-140◆	µi/mL	4.5E-08	9.0E-08	Interim Final PDWS (EPA, 1977)
Benzene	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
alpha-Benzene hexachloride	g/L	0.15	0.3	EPA Method 8080
beta-Benzene hexachloride	g/L	0.25	0.5	EPA Method 8080
delta-Benzene hexachloride	g/L	0.25	0.5	EPA Method 8080
Benzidine	g/L	83.5	167	EPA Method 8270
Benzo[a]anthracene	g/L	0.05	0.1	Proposed PDWS (EPA, 1990)
Benzo[b]fluoranthene	g/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzo[k]fluoranthene	g/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzoic acid	g/L	5.0	10	EPA Method 8270
Benzo[g,h,i]perylene	g/L	5.1	10.2	EPA Method 8270
Benzo[a]pyrene	g/L	0.1	0.2	Final PDWS (EPA, 2001a)
1,4-Benzoquinone	g/L	50	100	EPA Method 8270

**Flagging Criteria**



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Benzyl alcohol	g/L	5.0	10	EPA Method 8270
Beryllium	g/L	2.0	4.0	Final PDWS (EPA, 2001a)
Beryllium, dissolved	g/L	2.0	4.0	Final PDWS (EPA, 2001a)
Beryllium, total recoverable	g/L	2.0	4.0	Final PDWS (EPA, 2001a)
Beryllium-7	µi/mL	3.0E-06	6.0E-06	Interim Final PDWS (EPA, 1977)
5-day Biochemical oxygen demand		No flag	No flag	Set by EPD/EMS
Bis(2-chloroethoxy) methane	g/L	5.1	10.2	EPA Method 8270
Bis(2-chloroethyl) ether	g/L	5.1	10.2	EPA Method 8270
Bis(chloromethyl) ether	g/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate	g/L	3.0	6.0	Final PDWS (EPA, 2001a)
Bismuth-214	µi/mL	9.4E-06	1.89E-05	Proposed PDWS (EPA, 1991c)
Boron	g/L	2,500	5,000	EPA Method 6010
Boron, dissolved	g/L	2,500	5,000	EPA Method 6010
Boron, total recoverable	g/L	2,500	5,000	EPA Method 6010
Bromide	g/L	5,000	10,000	EPA Method 300.0
Bromobenzene	g/L	25	50	EPA Method 8260
Bromochloromethane	g/L	5	10	EPA Method 8260
Bromodichloromethane	g/L	50	100	Final PDWS (EPA, 2001a)
Bromoform (Methyl bromide)	g/L	50	100	Final PDWS (EPA, 2001a)
Bromomethane	g/L	10	20	EPA Method 8240
4-Bromophenyl phenyl ether	g/L	5.1	10.2	EPA Method 8270
2-sec-Butyl-4,6-dinitrophenol	g/L	3.5	7.0	Final PDWS (EPA, 2001a)
n-Butylbenzene	g/L	5	10	EPA Method 8260
sec-Butylbenzene	g/L	5	10	EPA Method 8260
tert-Butylbenzene	g/L	5	10	EPA Method 8260
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
Cadmium	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Cadmium, dissolved	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Cadmium, total recoverable	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Calcium		No flag	No flag	Set by EPD/EMS
Calcium, dissolved		No flag	No flag	Set by EPD/EMS
Calcium, total recoverable		No flag	No flag	Set by EPD/EMS
Carbofuran	g/L	20	40	Final PDWS (EPA, 2001a)
Carbon disulfide	g/L	25	50	EPA Method 8240
Carbon tetrachloride	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Carbon-14	µi/mL	1.0E-06	2.0E-06	Interim Final PDWS (EPA, 1977)
Carbonate		No flag	No flag	Set by EPD/EMS
Cerium-141 ♦	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Cerium-144	µi/mL	1.31E-07	2.61E-07	Proposed PDWS (EPA, 1991c)
Cesium-134 ❖	µi/mL	4.07E-08	8.13E-08	Proposed PDWS (EPA, 1991c)
Cesium-137	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)
Chemical oxygen demand		No flag	No flag	Set by EPD/EMS
Chlordane	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
alpha-Chlordane	g/L	0.25	0.5	EPA Method 8080
gamma-Chlordane	g/L	0.25	0.5	EPA Method 8080
Chloride	g/L	125,000	250,000	SDWS (EPA, 2001b)
4-Chloroaniline	g/L	5.0	10	EPA Method 8270
Chlorobenzene	g/L	50	100	Final PDWS (EPA, 2001a)
Chlorobenzilate	g/L	81	162	EPA Method 8270
Chloroethane	g/L	10	20	EPA Method 8240
Chloroethene (Vinyl chloride)	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Chloroethyl vinyl ether	g/L	5.0	10	EPA Method 8240
2-Chloroethyl vinyl ether	g/L	50	100	EPA Method 8240
Chloroform	g/L	50	100	Final PDWS (EPA, 2001a)
4-Chloro-m-cresol	g/L	5.1	10.2	EPA Method 8270
Chloromethane (Methyl chloride)	g/L	10	20	EPA Method 8240
2-Chloronaphthalene	g/L	5.1	10.2	EPA Method 8240

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
2-Chlorophenol	g/L	5.1	10.2	EPA Method 8270
4-Chlorophenyl phenyl ether	g/L	5.1	10.2	EPA Method 8270
Chloroprene	g/L	1,665	3,330	EPA Method 8240
2-Chlorotoluene	g/L	25	50	EPA Method 8260
4-Chlorotoluene	g/L	5	10	EPA Method 8260
Chromium	g/L	50	100	Final PDWS (EPA, 2001a)
Chromium, dissolved	g/L	50	100	Final PDWS (EPA, 2001a)
Chromium, total recoverable	g/L	50	100	Final PDWS (EPA, 2001a)
Chromium-51 ♦	µi/mL	3.0E-06	6.0E-06	Interim Final PDWS (EPA, 1977)
Chrysene	g/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Cobalt	g/L	50	100	EPA Method 6010
Cobalt, dissolved	g/L	50	100	EPA Method 6010
Cobalt, total recoverable	g/L	50	100	EPA Method 6010
Cobalt-57	µi/mL	5.0E-07	1.0E-06	Interim Final PDWS (EPA, 1977)
Cobalt-58	µi/mL	4.5E-06	9.0E-06	Interim Final PDWS (EPA, 1977)
Cobalt-60	µi/mL	5.0E-08	1.0E-07	Interim Final PDWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	g/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, dissolved	g/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, total recoverable	g/L	500	1,000	Final PDWS (SCDHEC, 1981)
Corrosivity		No flag	No flag	Set by EPD/EMS
m-Cresol (3-Methylphenol)	g/L	50	100	EPA Method 8270
o-Cresol (2-Methylphenol)	g/L	5.0	10	EPA Method 8270
p-Cresol (4-Methylphenol)	g/L	60	120	EPA Method 8270
Curium-242	µi/mL	6.65E-08	1.33E-07	Proposed PDWS (EPA, 1991c)
Curium-243	µi/mL	4.15E-09	8.30E-09	Proposed PDWS (EPA, 1991c)
Curium-243/244 ☼	µi/mL	4.15E-09	8.30E-09	Proposed PDWS (EPA, 1991c)
Curium-244	µi/mL	4.92E-09	9.84E-09	Proposed PDWS (EPA, 1991c)
Curium-245/246 ☼	µi/mL	3.12E-09	6.23E-09	Proposed PDWS (EPA, 1991c)
Curium-246	µi/mL	3.14E-09	6.27E-09	Proposed PDWS (EPA, 1991c)
Cyanide	g/L	100	200	Final PDWS (EPA, 2001a)
Dalapon	g/L	100	200	Final PDWS (EPA, 2001a)
p,p'-DDD	g/L	0.55	1.1	EPA Method 8080
p,p'-DDE	g/L	0.25	0.5	EPA Method 8080
p,p'-DDT	g/L	0.85	1.7	EPA Method 8080
Diallate	g/L	81	162	EPA Method 8270
Dibenz[a,h]anthracene	g/L	0.15	0.3	Proposed PDWS (EPA, 1990)
Dibenzofuran	g/L	5.0	10	EPA Method 8270
Dibromochloromethane	g/L	50	100	Final PDWS (EPA, 2001a)
1,2-Dibromo-3-chloropropane	g/L	0.1	0.2	Final PDWS (EPA, 2001a)
1,2-Dibromoethane	g/L	0.025	0.05	Final PDWS (EPA, 2001a)
Dibromomethane (Methylene bromide)	g/L	10	20	EPA Method 8240
Di-n-butyl phthalate		No flag	No flag	Set by EPD/EMS
1,2-Dichlorobenzene	g/L	300	600	Final PDWS (EPA, 2001a)
1,3-Dichlorobenzene	g/L	81	162	EPA Method 8270
1,4-Dichlorobenzene	g/L	37.5	75	Final PDWS (EPA, 2001a)
3,3'-Dichlorobenzidine	g/L	5.1	10.2	EPA Method 8270
trans-1,4-Dichloro-2-butene	g/L	250	500	EPA Method 8240
Dichlorodifluoromethane	g/L	10	20	EPA Method 8240
1,1-Dichloroethane	g/L	10	20	EPA Method 8240
1,2-Dichloroethane	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
cis-1,2-Dichloroethylene	g/L	35	70	Final PDWS (EPA, 2001a)
1,1-Dichloroethylene	g/L	3.5	7.0	Final PDWS (EPA, 2001a)
1,2-Dichloroethylene	g/L	25	50	EPA Method 8240
trans-1,2-Dichloroethylene	g/L	50	100	Final PDWS (EPA, 2001a)
Dichloromethane (Methylene chloride)	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
2,4-Dichlorophenol	g/L	5.1	10.2	EPA Method 8270

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
2,6-Dichlorophenol	g/L	83.5	167	EPA Method 8270
2,4-Dichlorophenoxyacetic acid	g/L	35	70	Final PDWS (EPA, 2001a)
1,2-Dichloropropane	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
2,2-Dichloropropane	g/L	5	10	EPA Method 8260
cis-1,3-Dichloropropene	g/L	10	20	EPA Method 8240
trans-1,3-Dichloropropene	g/L	10	20	EPA Method 8240
Dieldrin	g/L	4.15	8.3	EPA Method 8080
Di(2-ethylhexyl) adipate	g/L	200	400	Final PDWS (EPA, 2001a)
Diethyl phthalate		No flag	No flag	Set by EPD/EMS
Dimethoate	g/L	81	162	EPA Method 8270
2,4-Dimethyl phenol	g/L	5.1	10.2	EPA Method 8270
Dimethyl phthalate		No flag	No flag	Set by EPD/EMS
p-Dimethylaminoazobenzene	g/L	81	162	EPA Method 8270
p-(Dimethylamino)ethylbenzene	g/L	50	100	EPA Method 8270
7,12-Dimethylbenz[a]anthracene	g/L	81	162	EPA Method 8270
3,3'-Dimethylbenzidine	g/L	81	162	EPA Method 8270
a,a-Dimethylphenethylamine	g/L	81	162	EPA Method 8270
1,3-Dinitrobenzene	g/L	81	162	EPA Method 8270
2,4-Dinitrophenol	g/L	51	102	EPA Method 8270
2,4-Dinitrotoluene	g/L	0.5	1.0	EPA Method 8270
2,6-Dinitrotoluene	g/L	0.5	1.0	EPA Method 8270
Di-n-octyl phthalate		No flag	No flag	Set by EPD/EMS
1,4-Dioxane	g/L	500	1000	EPA Method 8270
Diphenylamine	g/L	81	162	EPA Method 8270
1,2-Diphenylhydrazine	g/L	83.5	167	EPA Method 8270
Diquat dibromide	g/L	10	20	Final PDWS (EPA, 2001a)
Dissolved organic carbon	g/L	10,500,000	21,000,000	EPA Method 9060
Disulfoton	g/L	81	162	EPA Method 8270
Endosulfan I	g/L	0.25	0.5	EPA Method 8080
Endosulfan II	g/L	0.55	1.1	EPA Method 8080
Endosulfan sulfate	g/L	0.55	1.1	EPA Method 8080
Endothall	g/L	50	100	Final PDWS (EPA, 2001a)
Endrin	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Endrin aldehyde	g/L	0.85	1.7	EPA Method 8080
Endrin ketone		No flag	No flag	Set by EPD/EMS
Ethyl ether	g/L	50	100	EPA Method 8260
Ethyl methacrylate	g/L	2.5	5.0	EPA Method 8270
Ethyl methanesulfonate	g/L	81	162	EPA Method 8270
Ethylbenzene	g/L	350	700	Final PDWS (EPA, 2001a)
Europium-152	µi/mL	3.0E-08	6.0E-08	Interim Final PDWS (EPA, 1977)
Europium-154	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)
Europium-155	µi/mL	3.0E-07	6.0E-07	Interim Final PDWS (EPA, 1977)
Famphur	g/L	81	162	EPA Method 8270
Fluoranthene	g/L	5.1	10.2	EPA Method 8270
Fluorene	g/L	5.1	10.2	EPA Method 8270
Fluoride	g/L	2,000	4,000	Final PDWS (EPA, 2001a)
Glyphosate	g/L	350	700	Final PDWS (EPA, 2001a)
Gross alpha	µi/mL	7.5E-09	1.5E-08	Final PDWS (EPA, 2001a)
Heptachlor	g/L	0.2	0.4	Final PDWS (EPA, 2001a)
Heptachlor epoxide	g/L	0.1	0.2	Final PDWS (EPA, 2001a)
Heptachlorodibenzo-p-dioxins	g/L	0.007	0.014	EPA Method 8280
1,2,3,4,6,7,8-HPCDD	g/L	0.007	0.014	EPA Method 8280
Heptachlorodibenzo-p-furans	g/L	0.008	0.016	EPA Method 8280
1,2,3,4,6,7,8-HPCDF	g/L	0.008	0.016	EPA Method 8280
Hexachlorobenzene	g/L	0.5	1.0	Final PDWS (EPA, 2001a)
Hexachlorobutadiene	g/L	5.0	10	EPA Method 8270
Hexachlorocyclopentadiene	g/L	25	50	Final PDWS (EPA, 2001a)

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Hexachlorodibenzo-p-dioxins	g/L	0.008	0.016	EPA Method 8280
1,2,3,4,7,8-HXCDD	g/L	0.0105	0.021	EPA Method 8280
Hexachlorodibenzo-p-furans	g/L	0.006	0.012	EPA Method 8280
1,2,3,4,7,8-HXCDF	g/L	0.0085	0.017	EPA Method 8280
Hexachloroethane	g/L	0.5	1.0	EPA Method 8270
Hexachlorophene	g/L	83.5	167	EPA Method 8270
Hexachloropropene	g/L	81	162	EPA Method 8270
2-Hexanone	g/L	50	100	EPA Method 8240
Indeno[1,2,3-c,d]pyrene	g/L	0.5	1.0	EPA Method 8270
Iodine	g/L	250	500	APHA Method 415A
Iodine-129	µi/mL	5.0E-10	1.0E-09	Interim Final PDWS (EPA, 1977)
Iodine-131 ♦	µi/mL	1.5E-09	3.0E-09	Interim Final PDWS (EPA, 1977)
Iodomethane (Methyl iodide)	g/L	125	250	EPA Method 8240
Iron	g/L	150	300	SDWS (EPA, 2001b)
Iron, dissolved	g/L	150	300	SDWS (EPA, 2001b)
Iron, total recoverable	g/L	150	300	SDWS (EPA, 2001b)
Iron-55 ♦	µi/mL	1.0E-06	2.0E-06	Interim Final PDWS (EPA, 1977)
Iron-59 ♦	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)
Isobutyl alcohol	g/L	834.5	1,669	EPA Method 8240
Isodrin	g/L	81	162	EPA Method 8270
Isophorone	g/L	5.1	10.2	EPA Method 8270
Isopropylbenzene	g/L	5	10	EPA Method 8260
p-Isopropyltoluene	g/L	5	10	EPA Method 8260
Isosafrole	g/L	81	162	EPA Method 8270
Kepone	g/L	81	162	EPA Method 8270
Lanthanum-140 ♦	µi/mL	3.0E-08	6.0E-08	Interim Final PDWS (EPA, 1977)
Lead	g/L	25	50	Final PDWS (SCDHEC, 1981)
Lead, dissolved	g/L	25	50	Final PDWS (SCDHEC, 1981)
Lead, total recoverable	g/L	25	50	Final PDWS (SCDHEC, 1981)
Lead-212	µi/mL	6.20E-08	1.23E-07	Proposed PDWS (EPA, 1991c)
Lindane	g/L	0.1	0.2	Final PDWS (EPA, 2001a)
Lithium	g/L	125	250	EPA Method 6010
Lithium, dissolved	g/L	125	250	EPA Method 6010
Lithium, total recoverable	g/L	125	250	EPA Method 6010
Magnesium		No flag	No flag	Set by EPD/EMS
Magnesium, dissolved		No flag	No flag	Set by EPD/EMS
Magnesium, total recoverable		No flag	No flag	Set by EPD/EMS
Manganese	g/L	25	50	SDWS (EPA, 2001b)
Manganese, dissolved	g/L	25	50	SDWS (EPA, 2001b)
Manganese, total recoverable	g/L	25	50	SDWS (EPA, 2001b)
Manganese-54	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Mercury	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Mercury, dissolved	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Mercury, total recoverable	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Methacrylonitrile	g/L	416.5	833	EPA Method 8240
Methapyrilene	g/L	81	162	EPA Method 8270
Methoxychlor	g/L	20	40	Final PDWS (EPA, 2001a)
Methyl ethyl ketone		No flag	No flag	Set by EPD/EMS
Methyl isobutyl ketone		No flag	No flag	Set by EPD/EMS
Methyl methacrylate	g/L	50	100	EPA Method 8270
Methyl methanesulfonate	g/L	81	162	EPA Method 8270
Methyl tert-butyl ether	g/L	5.0	10	EPA Method 8260
3-Methylcholanthrene	g/L	81	162	EPA Method 8270
2-Methyl-4,6-dinitrophenol	g/L	51	102	EPA Method 8270
2-Methylnaphthalene	g/L	5.0	10	EPA Method 8270
Molybdenum	g/L	250	500	EPA Method 6010
Molybdenum, dissolved	g/L	250	500	EPA Method 6010

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Molybdenum, total recoverable	g/L	250	500	EPA Method 6010
Naphthalene	g/L	83.5	167	EPA Method 8270
1,4-Naphthoquinone	g/L	81	162	EPA Method 8270
1-Naphthylamine	g/L	81	162	EPA Method 8270
2-Naphthylamine	g/L	81	162	EPA Method 8270
Neptunium-237	µi/mL	3.53E-09	7.06E-09	Proposed PDWS (EPA, 1991c)
Neptunium-239	µi/mL	8.40E-07	1.68E-06	Proposed PDWS (EPA, 1991c)
Nickel	g/L	50	100	Final PDWS (EPA, 2001a)
Nickel, dissolved	g/L	50	100	Final PDWS (EPA, 2001a)
Nickel, total recoverable	g/L	50	100	Final PDWS (EPA, 2001a)
Nickel-59	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Nickel-63	µi/mL	2.5E-08	5.0E-08	Interim Final PDWS (EPA, 1977)
Niobium-95◆	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Nitrate as nitrogen	g/L	5,000	10,000	Final PDWS (EPA, 2001a)
Nitrate-nitrite as nitrogen	g/L	5,000	10,000	Final PDWS (EPA, 2001a)
Nitrite as nitrogen	g/L	500	1,000	Final PDWS (EPA, 2001a)
m-Nitroaniline	g/L	5.0	10	EPA Method 8270
o-Nitroaniline	g/L	5.0	10	EPA Method 8270
p-Nitroaniline	g/L	5.0	10	EPA Method 8270
Nitrobenzene	g/L	5.1	10.2	EPA Method 8270
Nitrogen by Kjeldahl method	g/L	500	1,000	EPA Method 351.2
2-Nitrophenol	g/L	5.1	10.2	EPA Method 8270
4-Nitrophenol	g/L	5.1	10.2	EPA Method 8270
4-Nitroquinoline-1-oxide	g/L	81	162	EPA Method 8270
N-Nitrosodi-n-butylamine	g/L	81	162	EPA Method 8270
N-Nitrosodiethylamine	g/L	81	162	EPA Method 8270
N-Nitrosodimethylamine	g/L	83.5	167	EPA Method 8270
N-Nitrosodiphenylamine	g/L	5.1	10.2	EPA Method 8270
N-Nitrosodipropylamine	g/L	5.1	10.2	EPA Method 8270
N-Nitrosomethylethylamine	g/L	81	162	EPA Method 8270
N-Nitrosomorpholine	g/L	81	162	EPA Method 8270
N-Nitrosopiperidine	g/L	81	162	EPA Method 8270
N-Nitrosopyrrolidine	g/L	81	162	EPA Method 8270
5-Nitro-o-toluidine	g/L	81	162	EPA Method 8270
Nonvolatile beta	µi/mL	2.5E-08	5.0E-08	Interim Final PDWS (EPA, 1977)
Octachlorodibenzo-p-dioxin	g/L	0.0085	0.017	EPA Method 8280
Octachlorodibenzo-p-furan	g/L	0.0065	0.013	EPA Method 8280
Odor		No flag	No flag	Set by EPD/EMS
Oil & grease	g/L	8,350	16,700	EPA Method 413.1
Oxamyl	g/L	100	200	Final PDWS (EPA, 2001a)
2,2-Oxybis(1-Chloropropane)	g/L	100	200	EPA Method 8270
Parathion	g/L	0.4	0.8	EPA Method 8080
Parathion methyl	g/L	0.4	0.8	EPA Method 8080
PCB 1016	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1221	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1232	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1242	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1248	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1254	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1260	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
PCB 1262	g/L	0.25	0.5	Final PDWS (EPA, 2001a)
Pentachlorobenzene	g/L	81	162	EPA Method 8270
Pentachlorodibenzo-p-dioxins	g/L	0.008	0.016	EPA Method 8280
1,2,3,7,8-PCDD	g/L	0.0075	0.015	EPA Method 8280
Pentachlorodibenzo-p-furans	g/L	0.0085	0.017	EPA Method 8280
1,2,3,7,8-PCDF	g/L	0.0085	0.017	EPA Method 8280
Pentachloroethane	g/L	81	162	EPA Method 8270

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Pentachloronitrobenzene	g/L	81	162	EPA Method 8270
Pentachlorophenol	g/L	0.5	1.0	Final PDWS (EPA, 2001a)
pH	pH	8.0	10	Set by EPD/EMS
pH	pH	4.0	3.0	Set by EPD/EMS
Phenacetin	g/L	81	162	EPA Method 8270
Phenanthrene	g/L	5.1	10.2	EPA Method 8270
Phenol	g/L	83.5	167	EPA Method 8270
Phenols	g/L	50	100	EPA Method 420.1
p-Phenylenediamine	g/L	81	162	EPA Method 8270
Phorate	g/L	0.85	1.7	EPA Method 8080
Picloram	g/L	250	500	Final PDWS (EPA, 2001a)
2-Picoline	g/L	81	162	EPA Method 8270
Plutonium-238	µi/mL	3.51E-09	7.02E-09	Proposed PDWS (EPA, 1991c)
Plutonium-239	µi/mL	3.11E-08	6.21E-08	Proposed PDWS (EPA, 1991c)
Plutonium-239/240☼	µi/mL	3.11E-08	6.21E-08	Proposed PDWS (EPA, 1991c)
Plutonium-240	µi/mL	3.11E-08	6.22E-08	Proposed PDWS (EPA, 1991c)
Plutonium-241◆	µi/mL	3.13E-08	6.26E-08	Proposed PDWS (EPA, 1991c)
Plutonium-242◆	µi/mL	3.27E-08	6.54E-08	Proposed PDWS (EPA, 1991c)
Potassium		No flag	No flag	Set by EPD/EMS
Potassium, dissolved		No flag	No flag	Set by EPD/EMS
Potassium, total recoverable		No flag	No flag	Set by EPD/EMS
Potassium-40	µi/mL	1.5E-07	3.0E-07	Proposed PDWS (EPA, 1986a)
Promethium-144	µi/mL	5.0E-08	1.0E-07	EPA Method 901.1
Promethium-146	µi/mL	5.0E-08	1.0E-07	EPA Method 901.1
Promethium-147	µi/mL	2.62E-06	5.24E-06	Proposed PDWS (EPA, 1991c)
Pronamid	g/L	81	162	EPA Method 8270
Propionitrile	g/L	1,665	3,330	EPA Method 8240
n-Propylbenzene	g/L	5	10	EPA Method 8260
Pyrene	g/L	5.1	10.2	EPA Method 8270
Pyridine	g/L	81	162	EPA Method 8270
Radium-226	µi/mL	2.5E-09	5.0E-09	Interim Final PDWS (EPA, 1977)
Radium-228	µi/mL	2.5E-09	5.0E-09	Interim Final PDWS (EPA, 1977)
Radon-222	µi/mL	1.5E-07	3.0E-07	Proposed PDWS (EPA, 1991c)
Ruthenium-103◆	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)
Ruthenium-106	µi/mL	1.5E-08	3.0E-08	Interim Final PDWS (EPA, 1977)
Safrole	g/L	81	162	EPA Method 8270
Selenium	g/L	25	50	Final PDWS (EPA, 2001a)
Selenium, dissolved	g/L	25	50	Final PDWS (EPA, 2001a)
Selenium, total recoverable	g/L	25	50	Final PDWS (EPA, 2001a)
Silica		No flag	No flag	Set by EPD/EMS
Silica, dissolved		No flag	No flag	Set by EPD/EMS
Silica, total recoverable		No flag	No flag	Set by EPD/EMS
Silver	g/L	50	100	SDWS (EPA, 2001b)
Silver, dissolved	g/L	50	100	SDWS (EPA, 2001b)
Silver, total recoverable	g/L	50	100	SDWS (EPA, 2001b)
Simazine	g/L	2.0	4.0	Final PDWS (EPA, 2001a)
Sodium		No flag	No flag	Set by EPD/EMS
Sodium, dissolved		No flag	No flag	Set by EPD/EMS
Sodium, total recoverable		No flag	No flag	Set by EPD/EMS
Sodium-22	µi/mL	2.33E-07	4.66E-07	Proposed PDWS (EPA, 1991c)
Specific conductance	β/cm	250	500	Set by EPD/EMS
Strontium-89	µi/mL	1.0E-08	2.0E-08	Interim Final PDWS (EPA, 1977)
Strontium-89/90☼	µi/mL	4.0E-09	8.0E-09	Final PDWS (EPA, 2001a)
Strontium-90	µi/mL	4.0E-09	8.0E-09	Final PDWS (EPA, 2001a)
Styrene	g/L	50	100	Final PDWS (EPA, 2001a)
Sulfate	g/L	200,000	400,000	Proposed PDWS (EPA, 1990)
Sulfide	g/L	8,350	16,700	EPA Method 9030

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Sulfate	g/L	81	162	EPA Method 8270
Surfactants		No flag	No flag	Set by EPD/EMS
2,4,5-T	g/L	0.25	0.5	EPA Method 8150
2,3,7,8-TCDD	g/L	0.000015	0.00003	Final PDWS (EPA, 2001a)
2,3,7,8-TCDF	g/L	0.00425	0.0085	EPA Method 8280
Technetium-99	µi/mL	4.5E-07	9.0E-07	Interim Final PDWS (EPA, 1977)
1,2,4,5-Tetrachlorobenzene	g/L	81	162	EPA Method 8270
Tetrachlorodibenzo-p-dioxins	g/L	0.007	0.014	EPA Method 8280
Tetrachlorodibenzo-p-furans	g/L	0.0055	0.011	EPA Method 8280
1,1,1,2-Tetrachloroethane	g/L	10	20	EPA Method 8240
1,1,2,2-Tetrachloroethane	g/L	50	100	EPA Method 8240
Tetrachloroethylene	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
2,3,4,6-Tetrachlorophenol	g/L	83.5	167	EPA Method 8270
Thallium	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Thallium, dissolved	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Thallium, total recoverable	g/L	1.0	2.0	Final PDWS (EPA, 2001a)
Thionazin	g/L	81	162	EPA Method 8270
Thorium-228	µi/mL	6.25E-08	1.25E-07	Proposed PDWS (EPA, 1991c)
Thorium-230	µi/mL	3.96E-08	7.92E-08	Proposed PDWS (EPA, 1991c)
Thorium-232	µi/mL	4.4E-08	8.8E-08	Proposed PDWS (EPA, 1991c)
Thorium-234◆	µi/mL	2.0E-07	4.01E-07	Proposed PDWS (EPA, 1991c)
Tin	g/L	250	500	EPA Method 282.2
Tin, dissolved	g/L	250	500	EPA Method 282.2
Tin, total recoverable	g/L	250	500	EPA Method 282.2
Tin-113	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Toluene	g/L	500	1,000	Final PDWS (EPA, 2001a)
o-Toluidine	g/L	81	162	EPA Method 8270
Total alpha-emitting radium	µi/mL	2.5E-09	5.0E-09	Interim Final PDWS (EPA, 1977)
Total carbon	g/L	5,000	10,000	EPA Method 9060
Total coliform	N/A	0	0	Final PDWS (EPA, 2001a)
Total dissolved solids		No flag	No flag	Set by EPD/EMS
Total hydrocarbons	g/L	5,000	10,000	EPA Method 418.1
Total inorganic carbon	g/L	8,350	16,700	EPA Method 9060
Total organic carbon	g/L	500,000	1,000,000	EPA Method 9060
Total organic halogens	g/L	50	100	EPA Method 9020
Total organic nitrogen	g/L	500	1,000	APHA Method 420
Total petroleum hydrocarbons	g/L	8,350	16,700	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
Toxaphene	g/L	1.5	3.0	Final PDWS (EPA, 2001a)
2,4,5-TP (Silvex)	g/L	25	50	Final PDWS (EPA, 2001a)
Tributyl phosphate	g/L	86	172	EPA Method 8270
1,2,3-Trichlorobenzene	g/L	5	10	EPA Method 8260
1,2,4-Trichlorobenzene	g/L	35	70	Final PDWS (EPA, 2001a)
1,1,1-Trichloroethane	g/L	100	200	Final PDWS (EPA, 2001a)
1,1,2-Trichloroethane	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Trichloroethylene	g/L	2.5	5.0	Final PDWS (EPA, 2001a)
Trichlorofluoromethane	g/L	10	20	EPA Method 8240
2,4,5-Trichlorophenol	g/L	5.0	10	EPA Method 8270
2,4,6-Trichlorophenol	g/L	0.5	1.0	EPA Method 8270
1,2,3-Trichloropropane	g/L	10	20	EPA Method 8240
Trichlorotrifluoroethane	g/L	50	100	EPA Method 8260
O,O,O-Triethyl phosphorothioate	g/L	81	162	EPA Method 8270
1,2,4-Trimethylbenzene	g/L	5	10	EPA Method 8260
1,3,5-Trimethylbenzene	g/L	5	10	EPA Method 8260
1,3,5-Trinitrobenzene	g/L	81	162	EPA Method 8270
Tritium	µi/mL	1.0E-05	2.0E-05	Final PDWS (EPA, 2001a)

### Flagging Criteria



<b>Analyte</b>	<b>Unit</b>	<b>Flag 1</b>	<b>Flag 2</b>	<b>Source†</b>
Turbidity✕		No flag	No flag	Set by EPD/EMS
Uranium	g/L	10	20	Proposed PDWS (EPA, 1991c)
Uranium alpha activity	µi/mL	1.5E-08	3.0E-08	Proposed PDWS (EPA, 1991c)
Uranium, dissolved	g/L	10	20	Proposed PDWS (EPA, 1991c)
Uranium, total recoverable	g/L	10	20	Proposed PDWS (EPA, 1991c)
Uranium-233/234⊕	µi/mL	6.9E-09	1.38E-08	Proposed PDWS (EPA, 1991c)
Uranium-234	µi/mL	6.95E-09	1.39E-08	Proposed PDWS (EPA, 1991c)
Uranium-235	µi/mL	7.25E-09	1.45E-08	Proposed PDWS (EPA, 1991c)
Uranium-238	µi/mL	7.3E-09	1.46E-08	Proposed PDWS (EPA, 1991c)
Vanadium	g/L	66.5	133	EPA Method 6010
Vanadium, dissolved	g/L	66.5	133	EPA Method 6010
Vanadium, total recoverable	g/L	66.5	133	EPA Method 6010
Vinyl acetate	g/L	50	100	EPA Method 8240
m/p-Xylene	g/L	81	162	EPA Method 8260
o-Xylene	g/L	5	10	EPA Method 8260
Xylenes	g/L	5,000	10,000	Final PDWS (EPA, 2001a)
Yttrium-88	µi/mL	5.0E-08	1.0E-07	EPA Method 901.1
Zinc	g/L	2,500	5,000	SDWS (EPA, 2001b)
Zinc, dissolved	g/L	2,500	5,000	SDWS (EPA, 2001b)
Zinc, total recoverable	g/L	2,500	5,000	SDWS (EPA, 2001b)
Zinc-65	µi/mL	1.5E-07	3.0E-07	Interim Final PDWS (EPA, 1977)
Zirconium-95	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)
Zirconium/Niobium-95◆	µi/mL	1.0E-07	2.0E-07	Interim Final PDWS (EPA, 1977)

† Analytical methods are discussed in the **Analytical Data Review** section of this document; references for dated sources are in the **References** section.

◆ EMS discontinued monitoring this radionuclide because it is inappropriate for the SRS Groundwater Monitoring Program.

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

⊕ When radionuclide analyses are combined, the lower DWS of the two isotopes is used for flagging.

✕ The primary maximum contaminant level range for turbidity is 1–5 NTU, which is inappropriate for the SRS Groundwater Monitoring Program.

Note: Beginning fourth quarter 1992, samples were no longer filtered at the wells. Therefore, the methods for analyzing metals now include a digestion step. Beginning fourth quarter 1993, the laboratories were required to report all metals as total recoverable metals. Flagging criteria remain unchanged.



# Sample Scheduling

Scheduling of sampling and analyses for the SRS Groundwater Monitoring Program conducted by EPD/EMS is based on several factors. Environmental screening is scheduled on a regular basis. Additional scheduling is based on previous flagging levels, regulatory requirements, and special requests that fall within the scope of the Groundwater Monitoring Program. This information is used to generate *The Savannah River Site's Groundwater Monitoring Program 2001 Sampling Schedule*.

A breakdown by laboratory of the total number of analyses performed during second quarter 2001 follows:

<b>Laboratory</b>	<b>Number of Analyses</b>
Environmental Physics	6,979
General Engineering Laboratories	16,528
General Engineering Mobile Laboratory	2,703
Recra LabNet Philadelphia	16,726
Stanford Cohen and Associates	302
Thermo NUtech	16

## ENVIRONMENTAL SCREENING

Wells designated as SRS Groundwater Surveillance Monitoring Program (GSMP) wells will be scheduled according to the annual GSMP plan. Monitoring will be specific to the objective of each well or well series; some will be monitored only for water levels to enhance potentiometric maps and grids, others will be monitored according to facility-specific plans, and others will include typical screening constituents such as those listed below. Monitoring frequency will be based on the objectives of each well or well series, and evaluated each year to ensure cost effectiveness. The results of the past year's monitoring will be reported in the annual report for the GSMP, prepared for DOE. The report also will include the proposed program for the following year, along with a technical justification.

### *Environmental-Screening Constituents*

Aluminum	<i>Water temperature</i>	Total phosphates (as P)
Arsenic	<i>Well condition</i>	Tritium
Barium	Fluoride	
Boron	Gross alpha	
Cadmium	Iron	
Chloride	Lead	
Chromium	Lithium	
Field measurements	Major ions	
<i>Air temperature</i>	<i>Calcium</i>	
<i>Date</i>	<i>Magnesium</i>	
<i>Depth to water</i>	<i>Potassium</i>	
<i>Flow rate</i>	<i>Silica</i>	
<i>pH</i>	Manganese	
<i>Phenolphthalein alkalinity</i>	Mercury	
<i>Program</i>	Nitrate-nitrite as nitrogen	
<i>Sampling method</i>	Nonvolatile beta	
<i>Site code</i>	Selenium	
<i>Specific conductance</i>	Silver	
<i>Stabilized (Yes or No)</i>	Sodium	
<i>Time</i>	Sulfate	
<i>Total alkalinity</i>	Total dissolved solids	
<i>Turbidity</i>	Total organic carbon	
<i>Volume purged</i>	Total organic halogens	



## Scheduling Based on Flagging Levels

Only the flagging criteria for environmental screening and GC VOA (see **Glossary**) are used to trigger scheduling. Wells are grouped for scheduling by monitoring site or by the investigation for which they are sampled. Specific criteria for Flag 1 and Flag 2 designations are found in the **Flagging Criteria** section of this report.

Beginning in 1996, only wells identified as part of the GSMP were scheduled by flagging criteria once a year. Constituents classified as Flag 0 in each well series are scheduled for analyses only by custodian request or as part of the GSMP. If an analytical result for an environmental-screening or GC VOA analysis in any well exceeds Flag 2 or Flag 1, the environmental-screening wells in the same monitoring series are sampled and analyzed for that constituent once a year. If a constituent falls below Flag 2 for three consecutive sampling events, the individual well's flag is reduced from Flag 2 status to Flag 1 or Flag 0 status, depending on the results, and the well is scheduled according to the lower flag. If a constituent falls below Flag 1 for three consecutive sampling events, the individual well's flag is reduced from Flag 1 status to Flag 0 status, and the flagging-based sampling ceases.

If an environmental-screening or GC VOA constituent has ever been flagged in a well series, it automatically is flagged for all new wells of that series that are designated as environmental-screening wells. The rules previously referred to also apply to removal of a flag from a new well.

When one or more of the five constituents in the GC VOA suite are flagged, the entire suite is scheduled for analysis. The GC VOA suite includes the following constituents: carbon tetrachloride, chloroform, tetrachloroethylene, 1,1,1-trichloroethane, and trichloroethylene.

The following constituents are exceptions to the flagging rules but still receive analyses by custodian request or during triennial environmental-screening analyses:

- Specific conductance and pH, two indicator constituents, have flagging criteria but do not trigger the scheduling mechanism.
- No flags are set for the following indicator parameters and major cations: alkalinity, 5-day biochemical oxygen demand, calcium, carbonate, chemical oxygen demand, magnesium, potassium, silica, sodium, total dissolved solids, total phosphates (as P), and total phosphorus.
- Aesthetic analyses such as color, odor, corrosivity, Eh, turbidity, and surfactants are not assigned flagging criteria but may be analyzed by special request.
- Common laboratory contaminants and cleaners including phthalates, dichloromethane (methylene chloride), ketones, and toluene are not assigned flagging criteria unless they have primary drinking water standards. These constituents may be analyzed by special request.

## GCMS VOA ANALYSES

All wells are reviewed for total organic halogens (TOH) results twice a year. GCMS VOA (see **Glossary**) is scheduled once for individual wells that are designated as environmental-screening wells, have had two results for TOH greater than 10 µg/L (excluding the first TOH analysis), and have never received GCMS VOA analysis.

## SAMPLING REQUESTS

Many analyses are scheduled at the request of various SRS groups. The person or group requesting an analysis must submit a formal sampling request form to EPD/EMS. If the request is within the scope of the Groundwater Monitoring Program, and if provision for the analysis has been made in the current laboratory contract, the analysis is added to the sampling schedule. Likewise, if a sampling request needs to be deleted, the originator of the request must submit a deletion form.



## Regulatory Requirements

All regulatory sampling requirements, such as those mandated by the Resource Conservation and Recovery Act (RCRA), are scheduled by request.

## Changes in Sampling

For changes in sampling for second quarter 2001, please refer to *The Savannah River Site's Groundwater Monitoring Program 2001 Sampling Schedule*.

The following RCRA Facility Investigation/Remedial Investigation (RFI/RI) and South Carolina Department of Health and Environmental Control (SCDHEC) projects were in process during second quarter 2001:

- A- and M-Area
- F- and H-Area Seepage Basins
- F- and H-Area Water Treatment Unit Extraction Tanks
- F- and H-Area Water Treatment Unit Injection Tanks
- Mixed Waste Management Facility
- Purge Water Management System
- Sanitary Landfill
- Silverton Road Waste Site

## CERCLA Projects

The following Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) projects were scheduled for sampling during second quarter 2001:

- A-Area Burning/Rubble Pits
- A- and M-Area Cretaceous Wells
- Chemicals, Metals, and Pesticides Pits
- D-Area Burning/Rubble Pits
- D-Area Expanded Operable Unit
- D-Area Oil Seepage Basin
- F-Area Seepage Basin Baseline Investigation
- K-Area Burning/Rubble Pit
- K-Area Coalpile Runoff Containment Basin
- K-Area Disassembly Basin
- L-Area Disassembly Basin



- Miscellaneous Chemical Basin
- Old Burial Ground Metals Investigation
- P-Area Burning/Rubble Pit
- P-Area Reactor Seepage Basin
- Southern Sector
- TNX Area

## MAINTENANCE, ACCESS, OR OTHER PROBLEMS

The following wells were not sampled for the Purge Water Management System (PWMS) per Casey Knapp because the PWMS was not working: FSB104D, 107D, 110D, 112D; and HSB 86C and 86D.

Wells BSW 3C4 and BSW 4C3 were not sampled because the tubing crimped.

Well ARP 3 was abandoned.

Well KDB 4 for the June sampling event was not sampled due to inaccessibility since the well was in a roped-off area.

Well TRW 4 was not sampled because it was not in operation.

Well ARP 16D was not sampled because it was being redeveloped.

Wells BSW 3C1, 3C2, and CMB 34I were not sampled due to insufficient water.

The following wells were not sampled because no water came to the surface: BSW 2D1, 3C3, 3D1, 4D1, 6D1, 6D2, 7D1; CMP 31C; FSL 4D.

Wells CMP 10C and HSB113D were not sampled because there was not enough water to sample.

Wells ABP 1A, 4, and 9B were not sampled due to equipment problems.

## DRY WELLS

The following wells were not sampled because they were dry during second quarter 2001:

CMB 4I, 5I, 8I, 9I, 10I, 11I, 12I, 13I, 16I, 17I, 18I, 20I, 24P, 24TE1, 24TE2, 25I, 26 I, 28I, 29I, 33I; CMP 10D, 13D; FSB 106D; MSB 8A; SRW 4; SRW 19

The following wells were not sampled and no reasons were given:

CMA 31I, 38I; CMB 32C, 32D; DCB 27, 27C, 31, 32A, 40A, 51A, 51D, 57A, 59A, 61; DWP 5; FBI 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D; FEX 10, 11; FSB 78, 78C, 94C, 94DR, 95CR, 95DR, 105C; RPC 6DU.

## NEW WELLS

The following wells were scheduled for sampling for the first time during second quarter 2001:

ARP 3DR, 12B1, 12C1, 12C3, 13B1, 13C1, 13C3, 14B1, 14C1, 14C3, 15B1, 15C1, 15C3, 16D; DCB 27C, 48A, 51A, 51D, 53, 54, 55, 56, 57A, 59A, 61, 63, 64; DRW 1 and 2; DWP 1, 2, 3, 4, 5, 6, 7, 8, 9; FBI 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D; and MSB 23TB1, 23TB3, 38TB1, 38TB3, 42TB1, 42TB3, 52TA1, 52TB1, 52TB3, 86TA1, 86TB1, 86TB3, 93TA1, 93TB1, 93TB3, 95TB1, and 95TB3.



# Field Notes

A sampler may visit a well to collect field data, collect samples, and/or measure depth to water. A well may be visited multiple times during a quarter for any combination of these reasons. Field measurements generally include air temperature, depth to water prior to pumping, flow rate, pH, phenolphthalein alkalinity, specific conductance, total alkalinity, turbidity, volume of water purged prior to sampling, and water temperature. Dissolved oxygen and Eh (REDOX potential) can be obtained by special request.

EPD/EMS personnel and RCS Corporation of Aiken, SC, performed well visitations during second quarter 2001. Each sampler maintained a field notebook. These notebooks are in the second quarter 2001 section of the EPD/EMS Groundwater Monitoring Library. All well visitations were routine during second quarter 2001, except as indicated in table 3. The table includes samplers' comments about conditions that may affect the samples or the data-collection process.

The majority of wells sampled during second quarter 2001 were pumped. Bailed wells are listed in table 74 in the **Quality Control Samples** section.

If a well pumps or is bailed dry during purging and is revisited and sampled within 24 hours, this is considered one sampling event yielding a single set of field and analytical data. For such wells, table 3 lists the volume purged before the well went dry during the first visitation. The **Analytical Results** section gives the total amount of water purged from each well in one sampling event.

Comments about dry wells and continuously pumping wells are also in the **Analytical Results** section.

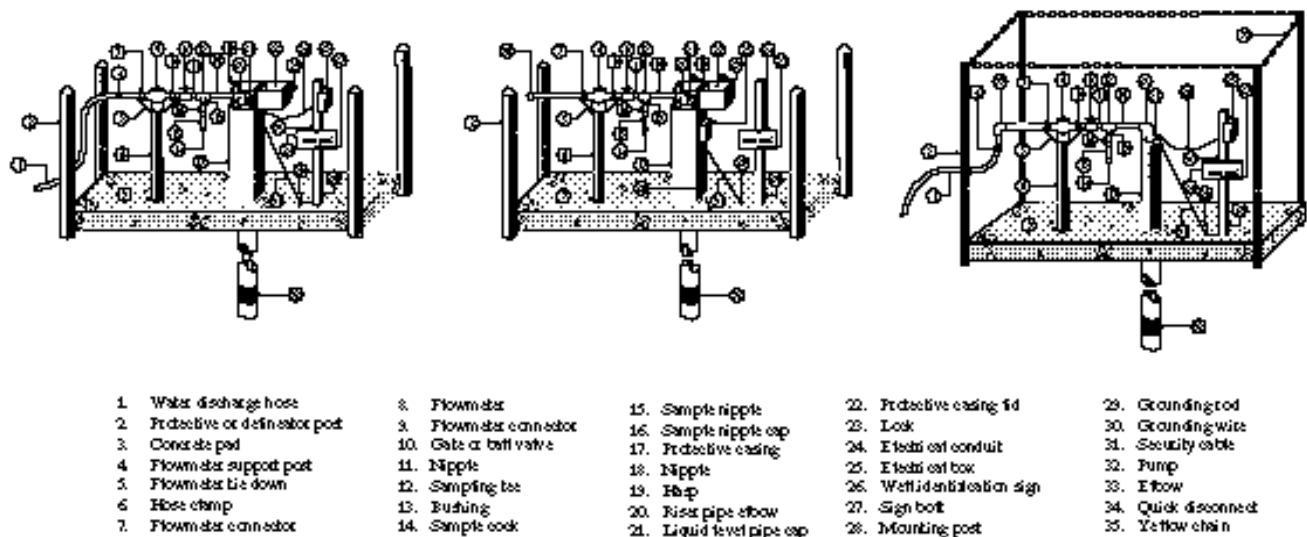


Figure 3. Three Types of Groundwater Monitoring Wellheads



Table 3. Comments from the Field Data

<i>Well</i>	<i>Date</i>	<i>Comments</i>
<b>ABP Series</b>		
ABP 1A	06/29/01	Unable to sample; no power to pump
ABP 4	06/29/01	Unable to sample; over voltage
ABP 8C	06/12/01	Dry after 3 gal; sampled after recovery
ABP 9B	06/11/01	Unable to sample; trip volt box; tried two difference boxes; not enough water to surface
<b>ARP Series</b>		
ARP 5D	04/11/01	Dirty; purged through sample port at 2 gal; turbidity=30 NTU
ARP 10D	04/10/01	High turbidity
ARP 11D	04/10/01	High turbidity
ARP 12B1	04/03/01	High turbidity
ARP 12C1	04/03/01	High turbidity
ARP 14C1	04/04/01	High turbidity
ARP 16D	04/11/01	Unable to sample; being redeveloped; power type unknown
<b>BGO Series</b>		
BGO 1D	05/11/01	Dry after 13 gal; very slow/surging; sampled after recovery; purged through sample port
BGO 2D	05/10/01	Pumped dry; no water in standpipe; hits pump at 55
	05/11/01	Dry after 5 gal; hits blockage at 55 ft; sampled after recovery; hits blockage at 55 ft
BGO 3C	05/10/01	Dry after 19 gal; dry after 1 gal; well went dry before sampling could begin
	05/11/01	Sampled after recovery
BGO 4D	05/11/01	Unable to sample; hits block at 67; no power to pump
	05/18/01	Unable to sample; hits block at 67; no power to pump
	06/16/01	Soapy
BGO 5C	05/11/01	Well not sampled; bluebird eggs/nest in casing
BGO 5D	06/16/01	Dry after 7 gal; begin purge through sample port, flow rate not registering on meter; sampled after recovery; aerated
BGO 6B	05/10/01	No water in standpipe; started slowing self down
BGO 9D	05/11/01	Purged through sample port
BGO 10DR	05/11/01	Purged through sample port
BGO 12AX	05/15/01	Generator and variable box don't cooperate - trips breaker
BGO 12CX	06/15/01	Purged through sample port
BGO 13DR	05/15/01	Dry after 6 gal
	05/16/01	Sampled after recovery
BGO 14CR	05/07/01	Unable to sample
BGO 26A	06/15/01	Dry after 13 gal; sampled after recovery
BGO 28D	05/09/01	Leaking flowmeter, cannot be repaired; inoperable flowmeter
	06/15/01	Dry after 5 gal; sampled after recovery
BGO 29D	05/07/01	Dry after 7 gal; sampled after recovery
BGO 30C	05/31/01	Flowmeter not operating
BGO 31C	05/09/01	Dry after 14 gal
	06/08/01	Dry after 36 gal
	06/11/01	Dry after 33 gal
	06/12/01	Sampled after recovery
BGO 31D	06/02/01	Dry after 5 gal; sampled after recovery; high turbidity
BGO 32D	06/18/01	Dry after 6 gal



<b>Well</b>	<b>Date</b>	<b>Comments</b>
	06/19/01	Dry after 4 gal; sampled after recovery
BGO 33D	06/02/01	Flowmeter not operating at low volume and leaking
BGO 35D	05/14/01	Dry after 18 gal; sampled after recovery
BGO 36D	05/14/01	Dry after 9 gal; sampled after recovery
BGO 37D	05/14/01	Dry after 8 gal
	05/15/01	Sampled after recovery; purged through sample port
BGO 38D	05/14/01	Dry after 12 gal
	05/15/01	Sampled after recovery; purged through sample port
BGO 39D	05/08/01	Dry after 2 gal
BGO 45B	05/08/01	Dry after 45 gal; generator died
	06/02/01	Dry after 37 gal; sampled after recovery
BGO 45C	05/08/01	Dry after 16 gal
BGO 46C	06/05/01	Last 7 gal purged through sample port
BGO 47C	06/02/01	Flowmeter sticking badly
BGO 53C	06/12/01	Mechanical failure
<b>BSW Series</b>		
BSW 1C1	05/25/01	High turbidity
BSW 1C4	05/23/01	Late start due to equipment failure
BSW 3C1	05/10/01	Insufficient water to sample
BSW 3C2	05/10/01	Insufficient water to sample
BSW 3C3	05/10/01	No water to surface
BSW 4D1	05/16/01	No water to surface
<b>CMB Series</b>		
CMB 1I	04/09/01	High turbidity
	05/01/01	High turbidity
CMB 4I	05/31/01	Dry well; unable to sample
CMB 5I	04/09/01	Mud
	05/31/01	Well depth below bailer; no water; unable to sample
CMB 6I	04/19/01	Bailed dry during sampling
CMB 8I	04/16/01	Dry well
	06/04/01	Dry well; sample not taken
CMB 9I	04/16/01	Dry well
	06/04/01	Dry well; sample not taken
CMB 10I	04/16/01	Dry well
	06/04/01	Dry well; sample not taken
CMB 11I	04/16/01	Dry well
	06/06/01	Dry well; sample not taken
CMB 12I	04/16/01	Dry well
	06/05/01	Dry well; sample not taken
CMB 13I	04/16/01	Dry well
	06/05/01	Dry well; sample not taken
CMB 16I	04/19/01	Bailed dry
	06/05/01	Dry well; sample not taken
CMB 17I	04/16/01	Dry well
	06/05/01	Dry well; sample not taken
CMB 18I	04/16/01	Dry well
	06/05/01	Dry well; sample not taken
CMB 19I	04/19/01	Bailed dry
CMB 20I	06/06/01	Dry well; sample not taken



<b>Well</b>	<b>Date</b>	<b>Comments</b>
CMB 22I	06/07/01	Very muddy
CMB 23I	04/23/01	Not enough water to sample
CMB 24P	06/21/01	Dry well
CMB 24TE1	06/21/01	Dry well
CMB 24TE2	06/21/01	Dry well
CMB 25I	04/24/01	Bailed dry during sampling; collected 5 bottles
	06/07/01	Dry well
CMB 26I	06/07/01	Dry well; sample not taken
CMB 27I	04/24/01	Bailed dry during sampling; collected 3 bottles
CMB 28I	04/24/01	Bailed dry during sampling; collected 1 bottle
	06/14/01	Dry well; sample not taken
CMB 29I	04/26/01	Dry well
	06/14/01	Dry well; sample not taken
CMB 33I	04/30/01	Sample partially collected
	06/14/01	Dry well; sample not taken
CMB 35I	04/30/01	Sample partially collected
	05/02/01	Dry well; high turbidity
CMB 36I	04/30/01	Sample partially collected
<b>CMP Series</b>		
CMP 10C	06/16/01	Pumped dry
CMP 10D	06/16/01	Unable to sample
CMP 11D	06/16/01	Pumped dry; sampled after recovery
CMP 12B	06/19/01	Unable to sample
CMP 14D	06/16/01	Pumped dry; sampled after recovery
CMP 15B	06/17/01	Dry after 18 gal; sampled after recovery
CMP 15C	06/21/01	Dry after 9 gal
	06/22/01	Sampled after recovery
CMP 30D	06/17/01	Sampled after recovery
	06/21/01	Dry after 7 gal
	06/22/01	Sampled after recovery
CMP 31C	06/19/01	Dry well; no water in standpipe
CMP 32C	04/03/01	Pumped dry
	04/04/01	Sampled after recovery
	06/17/01	Sampled after recovery
CMP 32D	04/03/01	Dry well
	06/17/01	Unable to sample; no water to surface; no water in standpipe
CMP 34D	05/09/01	High turbidity
	06/25/01	Well did not recover; no water to surface
CMP 36D	05/02/01	High turbidity
CMP 37D	05/09/01	High turbidity
CMP 38D	05/02/01	High turbidity
CMP 39D	05/03/01	High turbidity
CMP 40D	05/03/01	High turbidity
CMP 42D	05/03/01	High turbidity
CMP 43D	05/03/01	High turbidity
<b>DCB Series</b>		
DCB 6	06/20/01	Flowmeter not steady; begin purge through sample port
DCB 7	06/24/01	Pump off
DCB 8C	06/25/01	Rained out

## Field Notes



<b>Well</b>	<b>Date</b>	<b>Comments</b>
	06/26/01	Pump not working; overload, no current
DCB 10	06/21/01	Pump off
DCB 11	06/04/01	Gate valve broken
	06/18/01	Purged last 3 gal through sample port
DCB 15	06/21/01	Pump not operating
DCB 15R	06/05/01	Purged through sample port
DCB 16R	06/29/01	Flowmeter not operating correctly; purged through sample port
DCB 17A	06/12/01	Rain
DCB 19A	06/14/01	Mud
DCB 19B	06/22/01	Muddy
DCB 20A	06/04/01	No flowmeter; purge tube needs to be fixed
DCB 22A	06/25/01	Pumped dry after 4 gal
DCB 23A	06/06/01	Full of decomposing bird; purge water contaminated
	06/25/01	Dry after 4 gal
	06/25/01	No sample taken
DCB 24B	06/20/01	Revisit for tritium
DCB 26AR	06/05/01	Variable box overload
	06/25/01	Pump off
DCB 26C	06/14/01	Generator overloading variable speed box
DCB 27	05/30/01	Purged through sample port
DCB 27C	05/30/01	Purged through sample port
	05/30/01	Sulfuric odor
DCB 30	06/01/01	Dry after 6 gal
	06/04/01	Dry after 1 gal
	06/05/01	Dry after 3.5 gal; sampled after recovery; high turbidity
DCB 33B	06/08/01	Purged 6 gal through sample port
DCB 34C	06/11/01	Pump not operating
DCB 36A	06/15/01	Purged through sample port
DCB 39A	06/14/01	Purged 1 gal through sample port; purge tube, and gate valve leaking
DCB 40A	05/31/01	Purged through sample port; well not set up for containerization
DCB 43A	06/25/01	Pump off
DCB 43C	06/07/01	Purged 11 gal through sample port
DCB 45C	06/25/01	Flowmeter not working correctly; purged through sample port
DCB 48A	06/18/01	Purged through sample port; no purge tube
DCB 48D	06/01/01	Pump stopped; equipment failure
DCB 56	06/06/01	Unable to sample; no variable connector
	06/07/01	Purged through sample port
DCB 57A	05/31/01	Well not set up, new well; purged through sample port; low volume
<b>DOB Series</b>		
DOB 15A	06/06/01	Humidity a problem with turbidity
<b>DRW Series</b>		
DRW 1	06/28/01	Continuously pumping
<b>DWP Series</b>		
DWP 1	06/22/01	Pump off
DWP 2	06/22/01	Pump off
DWP 3	06/20/01	Pump off
DWP 5	06/27/01	Dry after 2 gal



<b>Well</b>	<b>Date</b>	<b>Comments</b>
DWP 6	06/28/01	Sampled after recovery; high turbidity
	06/27/01	Dry after 2 gal
	06/28/01	Partially sampled after recovery; inadequate water, return required
<b>FBI Series</b>		
FBI 3D	06/27/01	Has been purged by operations 1 hour earlier
FBI 4D	06/27/01	Purged just before by operations
FBI 7D	06/14/01	Purged through sample port
FBI 9D	06/12/01	20 gal already purged today; waited for stability
FBI 8D	06/12/01	20 gal already purged today; wait for stability
	06/19/01	Minor leak in piping attachment to sample valve
FBI 10D	06/14/01	Purged through sample port
	06/19/01	Minor leak in piping
FBI 11D	06/14/01	Purged through sample port
FBI 12D	06/12/01	20 gal already purged today; waited for stability; raining
	06/14/01	Purged through sample port
	06/20/01	20 gal has just been purged by operations
<b>FEX Series</b>		
FEX 1D	06/15/01	Continuously pumping; samples taken immediately after operations purged
FEX 10	05/21/01	Continuously pumping
	06/20/01	Continuously pumping; no purge necessary; online pumping active
FEX 11	06/26/01	Continuously pumping
	05/21/01	Continuously pumping
	06/15/01	Continuously pumping; samples taken after operations purged about 15 minutes
	06/20/01	Continuously pumping; no purge necessary; online pumping active
	06/27/01	Continuously pumping
<b>FIN Series</b>		
FIN 2TK	05/08/01	Continuously pumping
	06/12/01	Continuously pumping
<b>FSB Series</b>		
FSB 76C	04/24/01	DOT rad
FSB 78C	05/23/01	Dry after 38 gal
	05/24/01	Sampled after recovery
	05/31/01	Dry after 41 gal; sampled after recovery
	06/16/01	Gauge will not work; there is a minor leak in piping connection
	06/21/01	Will not pump; shut down; flowmeter will not work
FSB 87D	06/25/01	Pumped dry; sampled after recovery
	04/24/01	DOT rad
	04/16/01	Flowmeter not operating
	04/16/01	Electrical problem
	04/23/01	Surging
FSB 90D	04/11/01	Flowmeter not operating
FSB 91D	04/16/01	Flowmeter not operating
FSB 93D	04/17/01	Purged through sample port
FSB 94C	05/22/01	Pumped dry



<b>Well</b>	<b>Date</b>	<b>Comments</b>
	05/23/01	Sampled after recovery
	06/01/01	Dry after 19 gal; purged 13 gal though sample port
	06/16/01	Dry after 30 gal; sampled after recovery
	06/21/01	Tritium readings; flow rate decreased
	06/28/01	Dry after 23 gal; sampled after recovery
FSB 94DR	06/16/01	After 30 gal still lots of tiny air bubbles
FSB 95CR	06/28/01	Stop 55 gal drum purge when filled; go to bucket purge for remainder about 9 gal
FSB 95DR	06/15/01	Had to purge 25 gal before turbidity seemed clear enough to stabilize
	06/28/01	Purged by bucket
FSB 99D	04/24/01	DOT rad
FSB102C	04/17/01	Flowmeter not operating
FSB104C	04/24/01	DOT rad
FSB105C	05/10/01	Possible electrical problem
FSB106D	04/24/01	Dry well; no water to surface; no water in standpipe; pushes air only
FSB108D	04/25/01	Dry after 3 gal; sampled after recovery
FSB111D	04/24/01	DOT rad
FSB113A	04/27/01	Dry after 29 gal; sampled after recovery
FSB113D	04/27/01	Purged through sample port
FSB120A	04/24/01	Dry after 20 gal; sample after recovery
FSB120D	04/24/01	Dry after 7 gal; sample after recovery
FSB121DR	04/25/01	Purged through sample port
	04/27/01	Dry after 6 gal; kept slowing self down; pump disconnected
	05/01/01	Purged through sample port; high turbidity history
FSB122D	04/26/01	Purged 2 gal through sample port
<b>FSL Series</b>		
FSL 1D	05/11/01	Purged through sample port
FSL 2D	04/30/01	Dry after 6 gal; pumped dry as sampling began
	05/01/01	Dry after 1 gal
	05/02/01	Dry after 3 gal
	05/03/01	Dry after 3 gal
FSL 3D	04/30/01	Dirty; purged through sample port ; low volume
FSL 4D	04/30/01	Dry well; no water to surface
FSL 5D	04/30/01	Surging
FSL 6D	04/16/01	Flowmeter not operating
FSL 7D	04/18/01	Purged through sample port
FSL 9D	04/18/01	Purged through sample port
<b>FSS Series</b>		
FSS 1D	05/31/01	Purged last 4 gal though sample port
	06/01/01	Sampled after recovery
FSS 2D	06/01/01	Sampled after recovery
FSS 3D	06/01/01	Purged through sample port
FSS 4D	06/01/01	Purged 11 gal through sample port
<b>HIN Series</b>		
HIN600TK	05/08/01	Continuously pumping
	06/12/01	Continuously pumping



<i><b>Well</b></i>	<i><b>Date</b></i>	<i><b>Comments</b></i>
<b>HSB Series</b>		
HSB 65	04/24/01	DOT rad
HSB 65C	04/24/01	DOT rad
HSB 66	04/03/01	Purged through sample port
HSB 68	04/19/01	Purged through sample port
HSB 70	04/04/01	Purged through sample port
HSB 70C	05/07/01	Dry after 30 gal; slow surging; sampled after recovery
HSB 71	04/04/01	Purged through sample port
HSB 83A	04/04/01	Flowmeter broken, estimated flow reate into 5 gal bucket at 4.5 gal/min
HSB 84A	04/04/01	Purged through sample port
HSB 85B	05/15/01	Unable to sample; trips breaker
	05/16/01	Dry after 38 gal
	05/17/01	Sampled after recovery
HSB101C	04/03/01	Flowmeter not working correctly; gate valve leaking; purged through sample port
HSB102C	04/03/01	Surging; raining
HSB104C	04/03/01	Slowed self down
HSB107C	04/03/01	Lock broken; slowed self down; surging
HSB109C	04/04/01	Slowed self down
HSB111E	04/04/01	Dry after 11 gal; flowmeter not operating at low rates; purged 5 gal through port; dirty, turbid
	04/05/01	Sampled after recovery; purged through sample port
HSB112E	04/04/01	Dry after 2 gal
	04/05/01	Sampled after recovery
HSB113D	05/08/01	Not enough water to surface
HSB 114C	04/05/01	Flowmeter stopped
HSB114D	04/19/01	Electrical problem; variable box overload
HSB115D	04/19/01	Purged through sample port
HSB116C	04/05/01	Flowmeter not operating
HSB117D	04/05/01	Flowmeter not operating
HSB119A	04/05/01	Dry after 17 gal; sampled after recovery
HSB120A	04/11/01	Surging; flowmeter stuck, reads 20 gals behind what it is; purged 74 gal through sample port
HSB123A	04/12/01	Dry after 30 gal; sampled after recovery; purged 1 gal through sample port
HSB129C	05/08/01	Started surging
HSB136C	05/08/01	Slow
HSB137C	05/07/01	Slows self down
HSB139C	05/25/01	Begin purging through sample port into 5 gal bucket; low flow; surging
	06/06/01	Dry after 30 gal; slow and surging flowmeter not registering; sampled after recovery; no water in standpipe
HSB142D	04/16/01	Flowmeter not operating; purged through sample port into 5 gal bucket
HSB144A	04/12/01	Sample port problem; replaced
HSB150D	04/23/01	Very slow
HSB152D	04/16/01	Dry after 5 gal; sampled after recovery; purged through sample port
<b>HSL Series</b>		
HSL 4D	05/02/01	Purged through sample port
HSL 5D	05/02/01	Dry after 14 gal; sampled after recovery; purged through sample port



<b>Well</b>	<b>Date</b>	<b>Comments</b>
HSL 6D	05/04/01	Dirty
HSL 8D	05/02/01	Purged through sample port; flowmeter not operating
HSL 7D	05/04/01	Purged 2 gal through sample port
<b>KCB Series</b>		
KCB 1	05/03/01	Purged through sample port
KCB 3	05/03/01	Gate valve leaking and rusted out; unable to get over .5 gal/min; purged through sample port into 5 gal bucket
KCB 5	05/03/01	Purged through sample port; low purge volume
KCB 6	05/03/01	Purged through sample port; low purge volume
<b>KDB Series</b>		
KDB 1	04/23/01	Purged through sample port
	06/29/01	Dry after 11 gal; sampled after recovery
KDB 3	04/23/01	Purged through sample port
	06/29/01	Dry after 17 gal; sampled after recovery
KDB 4	04/23/01	Purged through sample port
KDB 5	04/23/01	Purged through sample port
	06/28/01	Dry after 5 gal; dry after 9 gal
	06/29/01	Sampled after recovery
<b>KRP Series</b>		
KRP 6	05/16/01	Dry after 1 gal
	05/17/01	Sampled after recovery; purged through sample port into 5 gal bucket
KRP 7	05/16/01	Purged through sample port; low volume
KRP 9	05/16/01	Dry after 1 gal; purged through sample port; slow surging
	05/17/01	Sampled after recovery; purged through sample port
KRP 8	05/16/01	Purged through sample port; surging slow
<b>LDB Series</b>		
LDB 1	06/28/01	Dry after 18 gal; sampled after recovery
LDB 2	04/24/01	Purged through sample port
	06/28/01	Dry after 22 gal; sampled after recovery
LDB 3	04/24/01	Purged through sample port
LDB 4	04/23/01	Purged through sample port
	04/25/01	Purged through sample port
	06/28/01	Dry after 5 gal; sampled after recovery
<b>LFP Series</b>		
LFP 2WP	06/29/01	Sampled after recovery
<b>LFW Series</b>		
LFW 6R	04/17/01	Flowmeter not operating
LFW 58D	04/17/01	Had to use vacuum to raise water to surface
LFW 60C	04/17/01	Gate valve broken; purged 23 gal through sample port; dirty
LFW 61D	04/18/01	Unable to sample; no sample collected due to high turbidity
	04/19/01	Due to previous turbidity, slow; purged through sample port into 5 gal bucket
LFW 63D	04/18/01	Purged 8 gal through sample port; flowmeter not working
LFW 64D	04/18/01	Flowmeter not operating at low volumes; purged through sample port into 5 gal bucket



<i><b>Well</b></i>	<i><b>Date</b></i>	<i><b>Comments</b></i>
LFW 67D	04/18/01	Flowmeter not operating at low volumes; purged through sample port into 5 gal bucket; dirty
<b>MCB Series</b>		
MCB 7C	06/11/01	Pumped dry
MCB 15B	06/18/01	Broken
MCB 19B	06/18/01	Broken
<b>MSB Series</b>		
MSB 7C	06/15/01	Pumped dry; sampled after recovery
MSB 18C	06/15/01	Pumped dry
	06/16/01	Sampled after recovery
MSB 38TB1	05/17/01	Improper pressure readings
MSB 52TB3	05/25/01	High turbidity
MSB 86TB3	05/25/01	High turbidity
MSB 95TB3	05/17/01	Improper pressure readings
<b>PRP Series</b>		
PRP 6	05/15/01	Purged through sample port
PRP 7	05/15/01	Dry after 3 gal; purged through sample port
	05/16/01	Sampled after recovery; dirty
<b>PSB Series</b>		
PSB 1A	05/18/01	Begin purge through sample port; low flow
PSB 5A	05/18/01	Dry after 5 gal; purged through sample port; very slow; will not operate flowmeter; sampled after recovery
<b>RWM Series</b>		
RWM 1	04/10/01	Unable to sample; blocked off
	04/30/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 3	04/10/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping; bird nest in flowmeter read out; water level not taken because tape got hung up
RWM 4	04/10/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 5	04/10/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 6	04/09/01	Continuously pumping
	05/09/01	Continuously pumping; could not get a water level, tried two synchronizes that ran out of tape but appeared wet; never hit bottom
	06/04/01	Continuously pumping
RWM 7	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 8	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping



<b>Well</b>	<b>Date</b>	<b>Comments</b>
RWM 9	04/09/01	Continuously pumping
	05/10/01	Continuously pumping; tape ran out before hitting bottom but appeared wet
	06/04/01	Continuously pumping
RWM 10	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 11	04/09/01	Continuously pumping
	05/10/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 12	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 13B	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 13C	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 14B	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 14C	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 15B	04/09/01	Continuously pumping
	05/09/01	Continuously pumping
	06/04/01	Continuously pumping
RWM 17B	04/09/01	Continuously pumping
	05/10/01	Continuously pumping; tape ran out before hitting bottom but appeared wet
	06/04/01	Continuously pumping
RWM 17D	04/09/01	Continuously pumping
	05/10/01	Continuously pumping
	06/04/01	Continuously pumping
<b>SRW Series</b>		
SRW 2	05/14/01	Dirty; no water in standpipe; delay start - generator problems
SRW 4	05/15/01	Dry well; no water in standpipe; no water to surface
SRW 7	05/15/01	Flowmeter not operating; very slow; purged through sample port
SRW 9	05/15/01	Purge tube 'T' broken, do not have part; flowmeter broken; purged through sample port into 5 gal bucket
SRW 17DR	05/14/01	Pump went out, could not restart; purged through sample port
SRW 18	05/15/01	High turbidity; began purge through sample port
SRW 19	05/14/01	Unable to sample; no power; dry well
<b>TBG Series</b>		
TBG 3	06/07/01	Purged last 6 gal through sample port
TBG 5	06/07/01	Purged through sample port
TBG 6	06/07/01	Purged through sample port



<i><b>Well</b></i>	<i><b>Date</b></i>	<i><b>Comments</b></i>
<b>TNX Series</b>		
TNX 3D	06/06/01	Dry after 4 gal; sampled after recovery
TNX 4D	06/03/01	Dry after 5 gal; sampled after recovery
TNX 5D	06/08/01	Pumped dry; sampled after recovery
TNX 6D	06/08/01	Pumped dry; sampled after recovery
TNX 12D	06/08/01	Flowmeter would not spin; purged into 5 gal bucket for flow rate 1 gpm
<b>TRW Series</b>		
TRW 1	06/07/01	Continuously pumping
TRW 2	06/07/01	Continuously pumping
TRW 3	06/07/01	Continuously pumping
TRW 4	06/07/01	Not in operation



# Analytical Data Review

The SRS Groundwater Monitoring Program evaluates all data systematically to provide high-quality data for reporting on the environmental monitoring and cleanup efforts at SRS. Data verification and validation are continuous, interactive processes, usually completed within 60 days after the last data are received for a quarter.

GE, ML, and WA, the primary contracting laboratories for sample analyses, performed all analyses with the following exceptions:

- GP conducted radionuclide analyses for GE, and TM conducted radionuclide analyses for WA. GP and TM conducted gross alpha, nonvolatile beta, tritium, and selected radionuclide analyses.
- ML conducted gross alpha, nonvolatile beta, and tritium analyses.
- SC conducted gross alpha, nonvolatile beta, tritium, and selected radionuclide analyses.

## GIMS DATA REVIEW MODULE

The Geochemical Information Management System (GIMS) is a combination of hardware, software, data, and procedures that supports EPD/EMS' data management activities. The GIMS Data Review Module provides automated data loading, validation and verification functions, data editing, determination of data review status, report generation, and data review QA. The data editing program allows users to correct errors in loaded analytical, field, and shipping data. When the review process is complete, data are loaded into the permanent production database tables in GIMS and are available sitewide.

## REVIEW OF THE ANALYTICAL DATA

EPD/EMS accepts subcontract laboratory data using a software program to compare the data against established acceptance criteria and to produce an output report identifying those instances where the acceptance criteria are not met. After acceptance, EPD/EMS performs additional reviews of the analytical data for errors and unusual results before releasing the data for use. The laboratories are asked to review and comment on suspect data.

Typical errors identified during data loading into GIMS include incorrect sample dates, run dates, and sample identifications; incorrectly entered analytical units, methods, and corresponding detection limits; and incorrect dilution factor calculations.

Analytical results that appear different from historical data collected since 1991 are brought to the attention of the appropriate laboratory. Thus, the laboratory is able to identify problems with some of the analyses, including incorrect dilution factor calculations and data entry errors. EPD/EMS corrects data files after receiving written notification from the laboratory. Specific details concerning the corrections are entered in the *EMS Groundwater Monitoring Program Changes to the Database Logbook*.

Samples that exceeded holding times are indicated by an EPA STORET code Q in the analytical results tables (see **Appendix B** for further information). The EPA STORET code V is used to indicate sample results associated with method laboratory blanks at the preparation step that are elevated above the instrument detection limit. Samples that were preserved incorrectly are marked with a Y EPA STORET code in the analytical results tables (see **Appendix B**). Usually, the Y indicates that the sample coolers were not cold enough. An EMS code I indicates that a sample's matrix spike recovery was not within control limits.



To determine if analytical results for a sampling site are similar to or relatively higher or lower than historical results, new results for each well are compared to that well's historical results using the following procedure:

- GIMS calculates the mean of the historical results and the mean of the historical results above detection for all analytes in the wells being compared. The historical results that are below their detection limit value are considered at their detection limits for the purpose of the calculation. The process eliminates any false high values due to diluted samples.
- GIMS factors in trends in the data calculated from the previous eight sampling events. If no previous data are available for a particular well/analyte combination, the program includes previous results from other wells in the same vicinity.
- Results greater than 10 times the calculated mean of the previous results are marked as high."Results (or their detection limits if the results are below detection) less than 10 percent of the calculated mean of the previous results are marked as low."

GIMS flags the potentially anomalous results for review. The data reviewer examines the results and takes into account individual historical values, variations of certain values, general trends in the data, and data in the prep batch associated with the current result. The data reviewer eliminates results if anomalous historical results have skewed the calculated mean. Another data reviewer inspects and confirms that the results marked as anomalous are properly identified. Anomalous results are presented to the lab for review and comment. Results significantly high or low compared with historical data are rerun by the lab.

## Review of the Analytical Narratives

EPD/EMS reviews the analytical narratives received from the laboratories, which are used as reference materials throughout the data validation process. Any discrepancies between the narratives and the analytical or chain-of-custody (COC) data must be resolved by the laboratories. The narratives include the following types of problems: QA samples that do not meet the criteria specified by the analytical method, problems with matrix interference, sample-specific adjustments to the method caused by high concentrations of some analytes, problems with sample preservation and holding time, instrument calibration problems, and contaminated blanks. The narratives also include additional information about COC and analytical data.

## Review of GE's Analytical Data

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 4 as high compared with historical data. A review of the laboratory records did not reveal any problems with the analyses.

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 5 as low compared with historical data. A review of the laboratory records did not reveal any problems with the analyses.

## Review of WA's Analytical Data

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 6 as high as compared with historical data. A review of the laboratory records did not reveal any problems other than those listed below.

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 7 as low compared with historical data. A review of the laboratory records did not reveal any problems with the analyses.

WA did not report 2-chloroethyl vinyl ether, a compound in the GC/MS volatile suite, because acidification eliminates the presence of this compound.



## Review of GP's Analytical Data

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 8 as high compared with historical data. A review of the laboratory records did not reveal any problems other than those listed below.

A technical review of the quarter's analytical data identified no reported results as low compared with historical data.

Radionuclide results for several wells were rejected for failure to meet laboratory QA standards.

## Review of ML's Analytical Data

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 9 as high as compared with historical data. A review of the laboratory records did not reveal any problems with the analyses.

A technical review of the quarter's analytical data identified no reported results as low compared with historical data.

## Review of SC's Analytical Data

A technical review of the quarter's analytical data identified no reported results as high compared with historical data.

A technical review of the quarter's analytical data identified at least one reported result for each of the analyses in table 10 as low as compared with historical data. A review of the laboratory records did not reveal any problems with the analyses.

## Review of TM's Analytical Data

A technical review of the quarter's analytical data identified no reported results as high compared with historical data.

A technical review of the quarter's analytical data identified no reported results as low compared with historical data.

## ANALYTICAL METHODS

Sample analyses performed for EPD/EMS during second quarter 2001 were conducted using EPA and other methods as noted in tables 11-16 at the end of this section. GE and WA performed most of the analyses conducted during the quarter. Their methods and estimated quantitation limits (EQLs) are listed in table 11 for GE and table 12 for WA.

GP, ML, SC, and TM performed the radionuclide analyses during second quarter 2001. Radionuclide methods generally are modified by the laboratories performing the analyses. Their methods and EQLs are listed in table 13 for GP, table 14 for ML, table 15 for SC, and table 16 for TM.

If the laboratories used more than one analytical method for an analyte, the methods are listed in the tables in descending order according to frequency of use. Generally, the method listed first was used for at least half of the analyses.



Table 4. GE Samples with High Analytical Results as Compared to Historical Data

Analyte	Well(s)
Alkalinity (as CaCO <sub>3</sub> )	BGO 28D†
Aluminum	BGO 27D, 30C†, 30D, 33D†; FSB 92C
Aluminum, dissolved	BGO 28D†
Antimony	FSB 78, 78C
Barium	BGO 30C
Beryllium	FSB113C
Chloroform	FSB 95DR
Chromium, dissolved	BGO 28D†
Chromium, total	BGO 30D; FBI 6D; FSB 78, 78C, 94C†
Copper	FSB 95CR†, 95DR
Curium-245/247	FIN 2TK†
Iron, dissolved	BGO 28D†, 30D†
Iron, total	BGO 27D, 30D, 33D†
Mercury	FBI 1D†; FEX 11; HSB 84B, 124AR‡, 136D
Nitrate-nitrite as nitrogen	FSB 88C, 118D
Lead	FSB 79C, 94C†, 95CR, 95DR, 97D‡
pH	FSB 97D
Selenium	FBI 10D
Sodium	BGO 27D
Specific conductance	FSB 79, 92C, 94DR, 118D; HSB 84D, 136C, 136D
Thallium	FBI 10D
Trichloroethylene	FSB 95CR
Zinc	BGO 28D; FSB 95DR

† The questioned value was at least 10 times higher than historical data. Because holding times had not been exceeded, the laboratory was asked to reanalyze the sample.

‡ The questioned value was at least 10 times higher than historical data. Because holding times had been exceeded, the laboratory was unable to reanalyze the sample.

Table 5. GE Samples with Low Analytical Results as Compared to Historical Data

Analyte	Well(s)
Calcium, dissolved	BGO 28D
Magnesium	BGO 27D
Manganese	BGO 30C



*Table 6. WA Samples with High Analytical Results as Compared to Historical Data*

<b>Analyte</b>	<b>Well(s)</b>
Alkalinity (as CaCO <sub>3</sub> )	BGO 14DR
Barium	BGO 48C
Barium, dissolved	BGO 31C
Dichloromethane (Methylene chloride)	BGO 6D
Copper	BGO 3C, 3DR, 8D
Iron, dissolved	BGO 30D†
Iron	BGO 48C
Lithium, total recoverable	BGO 6A, 6A†
Mercury, dissolved	BGO 33C
Nickel	BGO 1D
Nitrate-nitrite as nitrogen	HSB 65A
Sulfate	BGO 14AR
Trichloroethylene	BGO 8D‡
Trichlorofluoromethane	BGO 14DR
Zinc	BGO 8D

† The questioned value was at least 10 times higher than historical data. Because holding times had not been exceeded, the laboratory was asked to reanalyze the sample.

‡ The questioned value was at least 10 times higher than historical data. Because holding times had been exceeded, the laboratory was unable to reanalyze the sample.

*Table 7. WA Samples with Low Analytical Results as Compared to Historical Data*

<b>Analyte</b>	<b>Well(s)</b>
Ethylbenzene	LFW 61C
Trichloroethylene	LFW 61C†
Xylenes	LFW 61C

† The questioned value was at least 10 times higher than historical data. Because holding times had been exceeded, the laboratory was unable to reanalyze the sample.

*Table 8. GP Samples with High Analytical Results as Compared to Historical Data*

<b>Analyte</b>	<b>Well(s)</b>
Curium-245/246	FSB 95DR†
Gross alpha	FSB 99C, 109D, 113A, 118D; HSL 1D
Nonvolatile beta	HSB108C
Strontium-90	BGO 5D†, 31C, 33C
Thorium-230	FSB 94C
Tritium	FSB 88C; HSB 68A†, 107D, 109D, 142D

The questioned value was at least 10 times higher than historical data. Because holding times had not been exceeded, the laboratory was asked to reanalyze the sample.



*Table 9. ML Samples with High Analytical Results as Compared to Historical Data*

<b>Analyte</b>	<b>Well(s)</b>
Gross alpha	BGO 8C†; HSB 86C; TNX 27D
Nonvolatile beta	BGO 8C†
Tritium	BGO 4D

† The questioned value was at least 10 times higher than historical data. Because holding times had not been exceeded, the laboratory was asked to reanalyze the sample. However, there was insufficient sample for reanalysis.

*Table 10. SC Samples with Low Analytical Results as Compared to Historical Data*

<b>Analyte</b>	<b>Well(s)</b>
Bismuth-214	FSB 78

*Table 11. Methods and Estimated Quantitation Limits Used by GE*

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Acenaphthene	g/L	EPA8270C	0.971/1.01
Acenaphthylene	g/L	EPA8270C	0.971/1.01
Acetone	g/L	EPA8260B	5.0
Acetonitrile	g/L	EPA8260B	25.0
Acrolein	g/L	EPA8260B	10.0
Acrylonitrile	g/L	EPA8260B	10.0
Aldrin	g/L	EPA8081A	0.0198/0.02
Alkalinity (as CaCO <sub>3</sub> )	meq/L	EPA310.1	1,000/2,000
	meq/L	SM2320B	1,000/2,000
Allyl chloride	g/L	EPA8260B	5.0
Aluminum	g/L	EPA6010B	50.0
	g/L	EPA6020	15.0
Aluminum, dissolved	g/L	EPA6010B	50.0
Anthracene	g/L	EPA8270C	0.971/1.01
Antimony	g/L	EPA6010B	10.0
	g/L	EPA6020	2.0
Antimony, dissolved	g/L	EPA6010B	10.0
Arsenic	g/L	EPA6010B	5.0
	g/L	EPA6020	3.0
Arsenic, dissolved	g/L	EPA6010B	5.0
Barium	g/L	EPA6010B	5.0
	g/L	EPA6020	2.0
Barium, dissolved	g/L	EPA6010B	5.0
Benzene	g/L	EPA8260B	1.0/200
alpha-Benzene hexachloride	g/L	EPA8081A	0.0198/0.02
beta-Benzene hexachloride	g/L	EPA8081A	0.0198/0.02
delta-Benzene hexachloride	g/L	EPA8081A	0.0198/0.02
Benzidine	g/L	EPA8270C	48.5/50.5
Benzo[a]anthracene	g/L	EPA8270C	0.971/1.01
Benzo[b]fluoranthene	g/L	EPA8270C	0.971/1.01
Benzo[k]fluoranthene	g/L	EPA8270C	0.971/1.01
Benzo[g,h,i]perylene	g/L	EPA8270C	0.971/1.01
Benzo[a]pyrene	g/L	EPA8270C	0.971/1.01
Beryllium	g/L	EPA6020	0.2
	g/L	EPA6010B	5.0



<i>Analyte</i>	<i>Unit</i>	<i>Method</i>	<i>Minimum/Maximum EQLs</i>
Beryllium, dissolved	g/L	EPA6010B	5.0
Bis(2-chloroethoxy) methane	g/L	EPA8270C	9.71/10.1
Bis(2-chloroethyl) ether	g/L	EPA8270C	9.71/10.1
Bis(2-chloroisopropyl) ether	g/L	EPA8270C	9.71/10.1
Bis(2-ethylhexyl) phthalate	g/L	EPA8270C	0.971/1.25
Boron	g/L	EPA6010B	50.0
Bromodichloromethane	g/L	EPA8260B	1.0/200
Bromoform	g/L	EPA8260B	1.0/200
Bromomethane	g/L	EPA8260B	1.0/200
4-Bromophenyl phenyl ether	g/L	EPA8270C	9.71/10.1
Butylbenzyl phthalate	g/L	EPA8270C	9.71/10.1
2-sec-Butyl-4,6-dinitrophenol	g/L	EPA8151A	0.5
Cadmium	g/L	EPA6010B	5.0
	g/L	EPA6020	1.0
Cadmium, dissolved	g/L	EPA6010B	5.0
Calcium	g/L	EPA6010B	100
Calcium, dissolved	g/L	EPA6010B	100
Carbon disulfide	g/L	EPA8260B	5.0
Carbon tetrachloride	g/L	EPA8260B	1.0/200
alpha-Chlordane	g/L	EPA8081A	0.0198/0.02
gamma-Chlordane	g/L	EPA8081A	0.0198/0.02
Chloride	g/L	EPA9056	100/500
	g/L	EPA300.0	100
4-Chloroaniline	g/L	EPA8270C	9.71/10.1
Chlorobenzene	g/L	EPA8260B	1.0/200
4-Chloro-m-cresol	g/L	EPA8270C	9.71/10.1
Chloroethane	g/L	EPA8260B	1.0/200
Chloroethene	g/L	EPA8260B	1.0/200
2-Chloroethyl vinyl ether	g/L	EPA8260B	5.0/1,000
Chloroform	g/L	EPA8260B	1.0/200
Chloromethane	g/L	EPA8260B	1.0/200
2-Chloronaphthalene	g/L	EPA8270C	0.971/1.01
2-Chlorophenol	g/L	EPA8270C	9.71/10.1
4-Chlorophenyl phenyl ether	g/L	EPA8270C	9.71/10.1
Chloroprene	g/L	EPA8260B	1.0
Chromium	g/L	EPA6010B	5.0
	g/L	EPA6020	3.0
Chromium, dissolved	g/L	EPA6010B	5.0
Chromium, hexavalent	g/L	EPA7196A	10.0
Chrysene	g/L	EPA8270C	0.971/1.01
Cobalt	g/L	EPA6010B	5.0
	g/L	EPA6020	1.0
Cobalt, dissolved	g/L	EPA6010B	5.0
Copper	g/L	EPA6010B	5.0
	g/L	EPA6020	1.0
Copper, dissolved	g/L	EPA6010B	5.0
m/p-Cresol	g/L	EPA8270C	9.71/10.1
o-Cresol	g/L	EPA8270C	9.71/10.1
Cyanide	g/L	EPA9012A	5.0
p,p'-DDD	g/L	EPA8081A	0.0396/0.04
p,p'-DDE	g/L	EPA8081A	0.0396/0.04
p,p'-DDT	g/L	EPA8081A	0.0396/0.04
Dibenz[a,h]anthracene	g/L	EPA8270C	0.971/1.01
Dibenzofuran	g/L	EPA8270C	9.71/10.1
Dibromochloromethane	g/L	EPA8260B	1.0/200
1,2-Dibromo-3-chloropropane	g/L	EPA8260B	1.0
1,2-Dibromoethane	g/L	EPA8260B	1.0
Dibromomethane	g/L	EPA8260B	1.0
Di-n-butyl phthalate	g/L	EPA8270C	9.71/10.1
1,2-Dichlorobenzene	g/L	EPA8270C	9.71/10.1
	g/L	EPA8260B	1.0
1,3-Dichlorobenzene	g/L	EPA8270C	9.71/10.1

## Analytical Data Review



<i>Analyte</i>	<i>Unit</i>	<i>Method</i>	<i>Minimum/Maximum EQLs</i>
	g/L	EPA8260B	1.0
1,4-Dichlorobenzene	g/L	EPA8260B	1.0
	g/L	EPA8270C	9.71/10.1
3,3-Dichlorobenzidine	g/L	EPA8270C	9.71/10.1
trans-1,4-Dichloro-2-butene	g/L	EPA8260B	5.0
Dichlorodifluoromethane	g/L	EPA8260B	1.0
1,1-Dichloroethane	g/L	EPA8260B	1.0/200
1,2-Dichloroethane	g/L	EPA8260B	1.0/200
1,1-Dichloroethylene	g/L	EPA8260B	1.0/200
1,2-Dichloroethylene	g/L	EPA8260B	2.0
cis-1,2-Dichloroethylene	g/L	EPA8260B	1.0
trans-1,2-Dichloroethylene	g/L	EPA8260B	1.0/200
Dichloromethane	g/L	EPA8260B	5.0/1,000
2,4-Dichlorophenol	g/L	EPA8270C	9.71/10.1
2,4-Dichlorophenoxyacetic acid	g/L	EPA8151A	0.5
1,2-Dichloropropane	g/L	EPA8260B	1.0/200
cis-1,3-Dichloropropene	g/L	EPA8260B	1.0/200
trans-1,3-Dichloropropene	g/L	EPA8260B	1.0/200
Dieldrin	g/L	EPA8081A	0.0396/0.04
Diethyl phthalate	g/L	EPA8270C	9.71/10.1
2,4-Dimethyl phenol	g/L	EPA8270C	9.71/10.1
Dimethyl phthalate	g/L	EPA8270C	9.71/10.1
2,4-Dinitrophenol	g/L	EPA8270C	19.4/20.2
2,4-Dinitrotoluene	g/L	EPA8270C	9.71/10.1
2,6-Dinitrotoluene	g/L	EPA8270C	9.71/10.1
Di-n-octyl phthalate	g/L	EPA8270C	9.71/10.1
Diphenylamine	g/L	EPA8270C	9.71/10.1
1,2-Diphenylhydrazine	g/L	EPA8270C	10.0
Dissolved organic carbon	g/L	EPA9060	200
Endosulfan sulfate	g/L	EPA8081A	0.0396/0.04
Endosulfan I	g/L	EPA8081A	0.0198/0.02
Endosulfan II	g/L	EPA8081A	0.0396/0.04
Endrin	g/L	EPA8081A	0.0396/0.04
Endrin aldehyde	g/L	EPA8081A	0.04
Endrin ketone	g/L	EPA8081A	0.0396/0.04
Ethylbenzene	g/L	EPA8260B	1.0/200
Fluoranthene	g/L	EPA8270C	0.971/1.01
Fluorene	g/L	EPA8270C	0.971/1.01
Heptachlor	g/L	EPA8081A	0.0198/0.02
Heptachlor epoxide	g/L	EPA8081A	0.0198/0.02
Hexachlorobenzene	g/L	EPA8270C	9.71/10.1
Hexachlorobutadiene	g/L	EPA8270C	9.71/10.1
Hexachlorocyclopentadiene	g/L	EPA8270C	9.71/10.1
Hexachloroethane	g/L	EPA8270C	9.71/10.1
2-Hexanone	g/L	EPA8260B	5.0
Hydroxide alkalinity	g/L	SM2320B	1,000/2,000
Indeno[1,2,3-c,d]pyrene	g/L	EPA8270C	0.971/1.01
Iodomethane	g/L	EPA8260B	5.0
Iron	g/L	EPA6010B	50.0
	g/L	EPA6020	25.0
Iron, dissolved	g/L	EPA6010B	50.0
Isobutyl alcohol	g/L	EPA8260B	50.0
Isophorone	g/L	EPA8270C	9.71/10.1
Lead	g/L	EPA6010B	5.0
	g/L	EPA6020	2.0
Lead, dissolved	g/L	EPA6010B	5.0
Lindane	g/L	EPA8081A	0.0198/0.02
Lithium	g/L	EPA6020	10.0
Magnesium	g/L	EPA6010B	20.0
Magnesium, dissolved	g/L	EPA6010B	20.0
Manganese	g/L	EPA6010B	10.0/50.0
Manganese, dissolved	g/L	EPA6010B	10.0

## Analytical Data Review



<i>Analyte</i>	<i>Unit</i>	<i>Method</i>	<i>Minimum/Maximum EQLs</i>
Mercury	g/L	EPA7470A	0.2/1.0
Mercury, dissolved	g/L	EPA7470A	0.2
Methacrylonitrile	g/L	EPA8260B	5.0
Methoxychlor	g/L	EPA8081A	0.198/0.2
2-Methyl-4,6-dinitrophenol	g/L	EPA8270C	9.71/10.1
Methyl ethyl ketone	g/L	EPA8260B	5.0
Methyl isobutyl ketone	g/L	EPA8260B	5.0
Methyl methacrylate	g/L	EPA8260B	5.0
2-Methylnaphthalene	g/L	EPA8270C	0.971/1.01
Naphthalene	g/L	EPA8270C	0.971/1.01
Nickel	g/L	EPA6010B	5.0
	g/L	EPA6020	2.0
Nickel, dissolved	g/L	EPA6010B	5.0
Nitrate as nitrogen	g/L	EPA300.0	50.0/5,000
Nitrate-nitrite as nitrogen	g/L	EPA353.1	50.0/10,000
	g/L	EPA353.2	50.0
Nitrite as nitrogen	g/L	EPA300.0	50.0
m-Nitroaniline	g/L	EPA8270C	9.71/10.1
o-Nitroaniline	g/L	EPA8270C	9.71/10.1
p-Nitroaniline	g/L	EPA8270C	9.71/10.1
Nitrobenzene	g/L	EPA8270C	9.71/10.1
2-Nitrophenol	g/L	EPA8270C	9.71/10.1
4-Nitrophenol	g/L	EPA8270C	9.71/10.1
N-Nitrosodimethylamine	g/L	EPA8270C	10.0
N-Nitrosodipropylamine	g/L	EPA8270C	9.71/10.1
Octachlorodibenzo-p-dioxin	g/L	EPA8280	0.01
PCB 1016	g/L	EPA8082	0.0971/0.1
PCB 1221	g/L	EPA8082	0.0971/0.1
PCB 1232	g/L	EPA8082	0.0971/0.1
PCB 1242	g/L	EPA8082	0.0971/0.1
PCB 1248	g/L	EPA8082	0.0971/0.1
PCB 1254	g/L	EPA8082	0.0971/0.1
PCB 1260	g/L	EPA8082	0.0971/0.1
	g/L	EPA8081A	0.1
Pentachlorophenol	g/L	EPA8270C	9.71/10.1
pH	pH	EPA9040B	0.1
Phenanthrene	g/L	EPA8270C	0.971/1.01
Phenol	g/L	EPA8270C	9.71/10.1
Phenols	g/L	EPA9066	5.0
Potassium	g/L	EPA6010B	100
Propionitrile	g/L	EPA8260B	5.0
Pyrene	g/L	EPA8270C	0.971/1.01
Selenium	g/L	EPA6010B	5.0
	g/L	EPA6020	5.0
Selenium, dissolved	g/L	EPA6010B	5.0
Silver	g/L	EPA6010B	5.0/50.0
	g/L	EPA6020	1.0
Silver, dissolved	g/L	EPA6010B	5.0
Sodium	g/L	EPA6010B	100
Sodium, dissolved	g/L	EPA6010B	100
Specific conductance	µ/cm	EPA9050A	1.0
	µ/cm	EPA120.1	1.0
Styrene	g/L	EPA8260B	1.0
Sulfate	g/L	EPA300.0	200/10,000
	g/L	EPA9056	200/100,000
2,4,5-T	g/L	EPA8151A	0.5
2,3,7,8-TCDD	g/L	EPA8280	0.01
1,1,1,2-Tetrachloroethane	g/L	EPA8260B	1.0
1,1,2,2-Tetrachloroethane	g/L	EPA8260B	1.0/200
Tetrachloroethylene	g/L	EPA8260B	1.0/200
Thallium	g/L	EPA6020	0.5
	g/L	EPA6010B	10.0

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<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Thallium, dissolved	g/L	EPA6010B	10.0
Tin	g/L	EPA6020	5.0
	g/L	EPA6010B	10.0
Toluene	g/L	EPA8260B	1.0/200
Total dissolved solids	g/L	EPA160.1	10,000
Total organic carbon	g/L	EPA9060	200/20,000
Total organic halogens	g/L	EPA9020B	10.0
Total phosphates (as P)	g/L	EPA9056	50.0
	g/L	EPA365.4	50.0
Toxaphene	g/L	EPA8081A	0.971/1.0
2,4,5-TP (Silvex)	g/L	EPA8151A	0.5
1,2,4-Trichlorobenzene	g/L	EPA8270C	9.71/10.1
1,1,1-Trichloroethane	g/L	EPA8260B	1.0/200
1,1,2-Trichloroethane	g/L	EPA8260B	1.0/200
Trichloroethylene	g/L	EPA8260B	1.0/200
Trichlorofluoromethane	g/L	EPA8260B	1.0/200
2,4,5-Trichlorophenol	g/L	EPA8270C	9.71/10.1
2,4,6-Trichlorophenol	g/L	EPA8270C	9.71/10.1
1,2,3-Trichloropropane	g/L	EPA8260B	1.0
Uranium	g/L	EPA6020	0.2
Vanadium	g/L	EPA6010B	5.0
	g/L	EPA6020	10.0
Vanadium, dissolved	g/L	EPA6010B	5.0
Vinyl acetate	g/L	EPA8260B	5.0
Xylenes	g/L	EPA8260B	3.0/150
Zinc	g/L	EPA6010B	5.0
	g/L	EPA6020	10.0
Zinc, dissolved	g/L	EPA6010B	5.0

Note: The groundwater samples are unfiltered; thus, the methods for metals are for total recoverable metals. Method 6010 is an inductively coupled plasma atomic emission spectroscopy method for metals determination and is published for RCRA determinations.

Table 12. Methods and Estimated Quantitation Limits Used by WA

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Acenaphthene	g/L	EPA8270C	10.0
Acenaphthylene	g/L	EPA8270C	10.0
Acetone	g/L	EPA8260B	10.0
Acetonitrile	g/L	EPA8260B	20.0
Acetophenone	g/L	EPA8270C	10.0
2-Acetylaminofluorene	g/L	EPA8270C	10.0
Acrolein	g/L	EPA8260B	20.0
Acrylonitrile	g/L	EPA8260B	5.0
Alkalinity (as CaCO <sub>3</sub> )	meq/L	EPA310.1	6,700/7,700
Allyl chloride	g/L	EPA8260B	10.0
Aluminum	g/L	EPA6010B	146/322
Aluminum, dissolved	g/L	EPA6010B	146/322
4-Aminobiphenyl	g/L	EPA8270C	10.0
Aniline	g/L	EPA8270C	10.0
Anthracene	g/L	EPA8270C	10.0
Antimony	g/L	EPA6010B	20.0/27.0
Antimony, dissolved	g/L	EPA6010B	27.0
Aramite	g/L	EPA8270C	20.0
Arsenic	g/L	EPA6010B	23.0/42.0
Arsenic, dissolved	g/L	EPA6010B	40.0/42.0
Barium	g/L	EPA6010B	1.8/8.3



<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Barium, dissolved	g/L	EPA6010B	1.8/8.3
Benzene	g/L	EPA8260B	5.0/10.0
Benzo[a]anthracene	g/L	EPA8270C	10.0/10.2
Benzo[b]fluoranthene	g/L	EPA8270C	10.0/10.2
Benzo[k]fluoranthene	g/L	EPA8270C	10.0/10.2
Benzoic acid	g/L	EPA8270C	25.0
Benzo[g,h,i]perylene	g/L	EPA8270C	10.0
Benzo[a]pyrene	g/L	EPA8270C	10.0/10.2
Benzyl alcohol	g/L	EPA8270C	10.0
Beryllium	g/L	EPA6010B	0.9/1.6
Beryllium, dissolved	g/L	EPA6010B	1.6
Bis(2-chloroethoxy) methane	g/L	EPA8270C	10.0
Bis(2-chloroethyl) ether	g/L	EPA8270C	10.0
Bis(2-chloroisopropyl) ether	g/L	EPA8270C	10.0
Bis(2-ethylhexyl) phthalate	g/L	EPA8270C	10.0/21.6
Boron	g/L	EPA6010B	20.0/266
Bromide	g/L	EPA9056	160
Bromodichloromethane	g/L	EPA8260B	5.0/10.0
Bromoform	g/L	EPA8260B	5.0/10.0
Bromomethane	g/L	EPA8260B	10.0/20.0
4-Bromophenyl phenyl ether	g/L	EPA8270C	10.0
Butylbenzyl phthalate	g/L	EPA8270C	10.0
2-sec-Butyl-4,6-dinitrophenol	g/L	EPA8270C	50.0
Cadmium	g/L	EPA6010B	3.0/4.7
Cadmium, dissolved	g/L	EPA6010B	4.1/4.7
Calcium	g/L	EPA6010B	296/471
Calcium, dissolved	g/L	EPA6010B	471
Carbon disulfide	g/L	EPA8260B	5.0
Carbon tetrachloride	g/L	EPA8260B	5.0/10.0
Chloride	g/L	EPA9056	210/340
4-Chloroaniline	g/L	EPA8270C	10.0
Chlorobenzene	g/L	EPA8260B	5.0/10.0
Chlorobenzilate	g/L	EPA8270C	10.0
4-Chloro-m-cresol	g/L	EPA8270C	10.0
Chloroethane	g/L	EPA8260B	10.0/20.0
Chloroethene	g/L	EPA8260B	10.0/100
2-Chloroethyl vinyl ether	g/L	EPA8260B	10.0/20.0
Chloroform	g/L	EPA8260B	5.0/10.0
Chloromethane	g/L	EPA8260B	10.0/20.0
2-Chloronaphthalene	g/L	EPA8270C	10.0
2-Chlorophenol	g/L	EPA8270C	10.0
4-Chlorophenyl phenyl ether	g/L	EPA8270C	10.0
Chloroprene	g/L	EPA8260B	5.0
Chromium	g/L	EPA6010B	7.0/11.0
Chromium, dissolved	g/L	EPA6010B	7.0/11.0
Chrysene	g/L	EPA8270C	10.0/10.2
Cobalt	g/L	EPA6010B	4.5/11.0
Cobalt, dissolved	g/L	EPA6010B	4.5
Copper	g/L	EPA6010B	5.5/15.0
Copper, dissolved	g/L	EPA6010B	15.0
m/p-Cresol	g/L	EPA8270C	10.0
o-Cresol	g/L	EPA8270C	10.0
Cyanide	g/L	EPA9014	15.2/33.0
	g/L	EPA9012A	15.2
Diallate	g/L	EPA8270C	10.0
Dibenz[a,h]anthracene	g/L	EPA8270C	10.0
Dibenzofuran	g/L	EPA8270C	10.0
Dibromochloromethane	g/L	EPA8260B	5.0/10.0
1,2-Dibromo-3-chloropropane	g/L	EPA8260B	5.0
1,2-Dibromoethane	g/L	EPA8260B	5.0
Dibromomethane	g/L	EPA8260B	5.0
Di-n-butyl phthalate	g/L	EPA8270C	10.0

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<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
1,2-Dichlorobenzene	g/L	EPA8270C	10.0
1,3-Dichlorobenzene	g/L	EPA8270C	10.0
1,4-Dichlorobenzene	g/L	EPA8260B	5.0
	g/L	EPA8270C	10.0
3,3'-Dichlorobenzidine	g/L	EPA8270C	10.0
trans-1,4-Dichloro-2-butene	g/L	EPA8260B	20.0
Dichlorodifluoromethane	g/L	EPA8260B	10.0
1,1-Dichloroethane	g/L	EPA8260B	5.0/10.0
1,2-Dichloroethane	g/L	EPA8260B	5.0/10.0
1,1-Dichloroethylene	g/L	EPA8260B	5.0/10.0
1,2-Dichloroethylene	g/L	EPA8260B	5.0
cis-1,2-Dichloroethylene	g/L	EPA8260B	5.0/100
trans-1,2-Dichloroethylene	g/L	EPA8260B	5.0/10.0
Dichloromethane	g/L	EPA8260B	5.0/10.0
2,4-Dichlorophenol	g/L	EPA8270C	10.0
2,6-Dichlorophenol	g/L	EPA8270C	10.0
1,2-Dichloropropane	g/L	EPA8260B	5.0/10.0
cis-1,3-Dichloropropene	g/L	EPA8260B	5.0/10.0
trans-1,3-Dichloropropene	g/L	EPA8260B	5.0/10.0
Diethyl phthalate	g/L	EPA8270C	10.0
2,4-Dimethyl phenol	g/L	EPA8270C	10.0
Dimethyl phthalate	g/L	EPA8270C	10.0
p-Dimethylaminoazobenzene	g/L	EPA8270C	10.0
7,12-Dimethylbenz[a]anthracene	g/L	EPA8270C	10.0
3,3'-Dimethylbenzidine	g/L	EPA8270C	10.0
a,a-Dimethylphenethylamine	g/L	EPA8270C	10.0
1,3-Dinitrobenzene	g/L	EPA8270C	10.0
2,4-Dinitrophenol	g/L	EPA8270C	25.0
2,4-Dinitrotoluene	g/L	EPA8270C	10.0
2,6-Dinitrotoluene	g/L	EPA8270C	10.0
Di-n-octyl phthalate	g/L	EPA8270C	10.0
1,4-Dioxane	g/L	EPA8270C	10.0
Diphenylamine	g/L	EPA8270C	10.0
Endrin	g/L	EPA8081A	0.1/0.102
Ethyl methacrylate	g/L	EPA8270C	10.0
Ethyl methanesulfonate	g/L	EPA8270C	10.0
Ethylbenzene	g/L	EPA8260B	5.0/10.0
Fluoranthene	g/L	EPA8270C	10.0
Fluorene	g/L	EPA8270C	10.0
Fluoride	g/L	EPA340.2	40.0
Hexachlorobenzene	g/L	EPA8270C	10.0
Hexachlorobutadiene	g/L	EPA8270C	10.0
Hexachlorocyclopentadiene	g/L	EPA8270C	10.0
Hexachloroethane	g/L	EPA8270C	10.0
Hexachlorophene	g/L	EPA8270C	250
Hexachloropropene	g/L	EPA8270C	10.0
2-Hexanone	g/L	EPA8260B	10.0
Indeno[1,2,3-c,d]pyrene	g/L	EPA8270C	10.0
Iodomethane	g/L	EPA8260B	5.0
Iron	g/L	EPA6010B	74.0/192
Iron, dissolved	g/L	EPA6010B	74.0/192
Isobutyl alcohol	g/L	EPA8260B	100
Isophorone	g/L	EPA8270C	10.0
Isosafrole	g/L	EPA8270C	10.0
Lead	g/L	EPA6010B	24.0/47.0
Lead, dissolved	g/L	EPA6010B	24.0/47.0
Lithium	g/L	EPA6010B	1.6/2.7
Magnesium	g/L	EPA6010B	74.0/170
Magnesium, dissolved	g/L	EPA6010B	74.0
Manganese	g/L	EPA6010B	1.5/7.8
Mercury	g/L	EPA7470A	0.3/1.0
Mercury, dissolved	g/L	EPA7470A	0.3/0.7

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<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Mercury, TCLP	g/L	EPA7470A	0.7
Methacrylonitrile	g/L	EPA8260B	10.0
Methapyrilene	g/L	EPA8270C	10.0
2-Methyl-4,6-dinitrophenol	g/L	EPA8270C	25.0
Methyl ethyl ketone	g/L	EPA8260B	10.0
Methyl isobutyl ketone	g/L	EPA8260B	10.0
Methyl methacrylate	g/L	EPA8260B	10.0
	g/L	EPA8270C	10.0
Methyl methanesulfonate	g/L	EPA8270C	10.0
3-Methylcholanthrene	g/L	EPA8270C	10.0
2-Methylnaphthalene	g/L	EPA8270C	10.0
Naphthalene	g/L	EPA8270C	10.0
1,4-Naphthoquinone	g/L	EPA8270C	10.0
1-Naphthylamine	g/L	EPA8270C	10.0
2-Naphthylamine	g/L	EPA8270C	10.0
Nickel	g/L	EPA6010B	4.1/26.0
Nickel, dissolved	g/L	EPA6010B	26.0
Nitrate as nitrogen	g/L	EPA9056	250/25,000
Nitrate-nitrite as nitrogen	g/L	EPA353.2	20.0/5,000
Nitrite as nitrogen	g/L	EPA9056	340/1,700
m-Nitroaniline	g/L	EPA8270C	25.0
o-Nitroaniline	g/L	EPA8270C	25.0
p-Nitroaniline	g/L	EPA8270C	25.0
Nitrobenzene	g/L	EPA8270C	10.0
2-Nitrophenol	g/L	EPA8270C	10.0
4-Nitrophenol	g/L	EPA8270C	25.0
4-Nitroquinoline-1-oxide	g/L	EPA8270C	20.0
N-Nitrosodi-n-butylamine	g/L	EPA8270C	10.0
N-Nitrosodiethylamine	g/L	EPA8270C	10.0
N-Nitrosodimethylamine	g/L	EPA8270C	10.0
N-Nitrosodiphenylamine	g/L	EPA8270C	10.0
N-Nitrosodipropylamine	g/L	EPA8270C	10.0
N-Nitrosomethylethylamine	g/L	EPA8270C	10.0
N-Nitrosomorpholine	g/L	EPA8270C	10.0
N-Nitrosopiperidine	g/L	EPA8270C	50.0
N-Nitrosopyrrolidine	g/L	EPA8270C	10.0
5-Nitro-o-toluidine	g/L	EPA8270C	10.0
Octachlorodibenzo-p-dioxin	ng/L	EPA8280A	1.6
PCB 1016	g/L	EPA8082	1.0
PCB 1221	g/L	EPA8082	2.0
PCB 1232	g/L	EPA8082	1.0
PCB 1242	g/L	EPA8082	1.0
PCB 1248	g/L	EPA8082	1.0
PCB 1254	g/L	EPA8082	1.0/1.02
PCB 1260	g/L	EPA8082	1.0/1.02
Pentachlorobenzene	g/L	EPA8270C	10.0
Pentachloroethane	g/L	EPA8270C	10.0
Pentachloronitrobenzene	g/L	EPA8270C	50.0
Pentachlorophenol	g/L	EPA8270C	25.0
pH	pH	EPA9040B	0.1
Phenacetin	g/L	EPA8270C	10.0
Phenanthrene	g/L	EPA8270C	10.0
Phenol	g/L	EPA8270C	10.0
Phenols	g/L	EPA9066	34.0/37.0
p-Phenylenediamine	g/L	EPA8270C	10.0
Phosphate	g/L	EPA365.2	67.0
2-Picoline	g/L	EPA8270C	10.0
Potassium	g/L	EPA6010B	112
Pronamid	g/L	EPA8270C	10.0
Propionitrile	g/L	EPA8260B	50.0
Pyrene	g/L	EPA8270C	10.0
Pyridine	g/L	EPA8270C	10.0

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<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Safrole	g/L	EPA8270C	10.0
Selenium	g/L	EPA6010B	26.0/66.0
Selenium, dissolved	g/L	EPA6010B	31.0/66.0
Silver	g/L	EPA6010B	5.0/10.0
Silver, dissolved	g/L	EPA6010B	5.0/6.8
Sodium	g/L	EPA6010B	214/1,070
Sodium, dissolved	g/L	EPA6010B	285
Specific conductance	µ/cm	EPA9050A	8.9/10.0
Styrene	g/L	EPA8260B	5.0
Sulfate	g/L	EPA9056	210/1,700
	g/L	EPA300.0	320/1,600
1,2,4,5-Tetrachlorobenzene	g/L	EPA8270C	10.0
1,1,1,2-Tetrachloroethane	g/L	EPA8260B	5.0
1,1,2,2-Tetrachloroethane	g/L	EPA8260B	5.0/10.0
Tetrachloroethylene	g/L	EPA8260B	5.0/50.0
2,3,4,6-Tetrachlorophenol	g/L	EPA8270C	10.0
Thallium	g/L	EPA6010B	46.0/55.0
Thallium, dissolved	g/L	EPA6010B	55.0
Tin	g/L	EPA6010B	63.0/70.0
Toluene	g/L	EPA8260B	5.0/10.0
o-Toluidine	g/L	EPA8270C	10.0
Total dissolved solids	g/L	EPA160.1	30,000/1.00E+06
Total organic carbon	g/L	EPA9060	1,000/1,400
Total organic halogens	g/L	EPA9020B	57.8/240
Total phosphates (as P)	g/L	EPA365.2	67.0/101
1,2,4-Trichlorobenzene	g/L	EPA8270C	10.0
1,1,1-Trichloroethane	g/L	EPA8260B	5.0/10.0
1,1,2-Trichloroethane	g/L	EPA8260B	5.0/10.0
Trichloroethylene	g/L	EPA8260B	5.0/1,000
Trichlorofluoromethane	g/L	EPA8260B	5.0/10.0
2,4,5-Trichlorophenol	g/L	EPA8270C	25.0
2,4,6-Trichlorophenol	g/L	EPA8270C	10.0
1,2,3-Trichloropropane	g/L	EPA8260B	5.0
1,3,5-Trinitrobenzene	g/L	EPA8270C	10.0
Vanadium	g/L	EPA6010B	5.6/6.9
Vanadium, dissolved	g/L	EPA6010B	6.9
Vinyl acetate	g/L	EPA8260B	10.0
Xylenes	g/L	EPA8260B	5.0/10.0
Zinc	g/L	EPA6010B	53.0/58.0
Zinc, dissolved	g/L	EPA6010B	53.0

Note: The groundwater samples are unfiltered; thus, the methods for metals are for total recoverable metals. Method 200.7 is an inductively coupled plasma atomic emission spectroscopy method for metals determination and is published for Safe Drinking Water Act investigations.

Table 13. Methods and Estimated Quantitation Limits Used by GP

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Actinium-228	µi/mL	RADA-013	6.82E-09/4.19E-08
Americium-241	µi/mL	RADA-011	3.15E-11/1.01E-08
Americium-243	µi/mL	RADA-011	9.95E-12/4.72E-09
Antimony-125	µi/mL	RADA-013	4.19E-09/2.01E-08
Barium-133	µi/mL	RADA-013	3.37E-09/9.43E-09
Bismuth-212	µi/mL	RADA-013	1.13E-08/3.08E-08
Bismuth-214	µi/mL	RADA-013	3.88E-09/2.52E-08
Carbon-14	µi/mL	RADA-003	1.49E-08/4.92E-08
Cerium-144	µi/mL	RADA-013	1.23E-08/2.36E-08

## Analytical Data Review



<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Cesium-134	Ⓒi/mL	RADA-013	1.36E-09/7.25E-09
Cesium-137	Ⓒi/mL	RADA-013	1.56E-09/1.01E-08
Cobalt-57	Ⓒi/mL	RADA-013	1.47E-09/2.83E-09
Cobalt-60	Ⓒi/mL	RADA-013	1.71E-09/9.24E-09
Curium-242	Ⓒi/mL	RADA-011	3.41E-11/6.31E-09
Curium-243/244	Ⓒi/mL	RADA-011	3.22E-11/9.51E-09
Curium-245/246	Ⓒi/mL	RADA-011	3.74E-11/4.11E-09
Europium-152	Ⓒi/mL	RADA-013	4.48E-09/2.17E-08
Europium-154	Ⓒi/mL	RADA-013	4.4E-09/2.4E-08
Europium-155	Ⓒi/mL	RADA-013	5.4E-09/2.56E-08
Gross alpha	Ⓒi/mL	EPA900.0	3.89E-10/5.57E-07
	Ⓒi/mL	RADA-001	1.26E-09
Iodine-129	Ⓒi/mL	RADA-006	6.42E-10/1.86E-08
Lead-212	Ⓒi/mL	RADA-013	3.17E-09/1.49E-08
Lead-214	Ⓒi/mL	RADA-013	5.92E-09/1.66E-08
Manganese-54	Ⓒi/mL	RADA-013	1.73E-09/3.33E-09
Neptunium-237	Ⓒi/mL	RADA-032	9.04E-11/9.61E-10
Nickel-63	Ⓒi/mL	RADA-022	3.68E-08/4.83E-08
Nonvolatile beta	Ⓒi/mL	EPA900.0	6.1E-10/7.8E-07
	Ⓒi/mL	RADA-001	2.42E-09
Plutonium-238	Ⓒi/mL	RADA-011	4.92E-11/7.24E-09
Plutonium-239/240	Ⓒi/mL	RADA-011	3.87E-11/3.27E-09
Plutonium-244	Ⓒi/mL	RADA-011	3.87E-11/2.49E-09
Potassium-40	Ⓒi/mL	RADA-013	2.23E-08/1.13E-07
Promethium-144	Ⓒi/mL	RADA-013	1.79E-09/3.36E-09
Promethium-146	Ⓒi/mL	RADA-013	1.96E-09/9.42E-09
Radium-226	Ⓒi/mL	RADA-008	4.79E-11/9.41E-10
Radium-228	Ⓒi/mL	RADA-009	7.33E-10/3.59E-09
	Ⓒi/mL	EPA904.0MOD	1.1E-09/1.44E-09
Radium, total alpha-emitting	Ⓒi/mL	RADA-010	7.6E-11/1.09E-09
Ruthenium-106	Ⓒi/mL	RADA-013	1.5E-08/3.14E-08
Sodium-22	Ⓒi/mL	RADA-013	1.83E-09/3.54E-09
Strontium-89/90	Ⓒi/mL	RADA-004	1.22E-09/3.32E-09
Strontium-90	Ⓒi/mL	RADA-004	2.89E-10/3.01E-09
Technetium-99	Ⓒi/mL	RADA-005	4.06E-09/2.45E-08
Thallium-208	Ⓒi/mL	RADA-013	1.84E-09/9.69E-09
Thorium-228	Ⓒi/mL	RADA-012	4.48E-11/3.47E-09
Thorium-230	Ⓒi/mL	RADA-012	2.32E-11/2.95E-09
Thorium-232	Ⓒi/mL	RADA-012	1.12E-11/1.37E-09
Thorium-234	Ⓒi/mL	RADA-013	8.71E-08/1.71E-07
Tritium	Ⓒi/mL	RADA-002	2.5E-07/7.67E-05
Uranium-233/234	Ⓒi/mL	RADA-011	2.16E-11/3.27E-09
Uranium-235	Ⓒi/mL	RADA-011	1.68E-11/3.35E-09
Uranium-238	Ⓒi/mL	RADA-011	2.16E-11/3.4E-09
Yttrium-88	Ⓒi/mL	RADA-013	1.95E-09/3.66E-09
Zinc-65	Ⓒi/mL	RADA-013	4.11E-09/7.61E-09

Table 14. Methods and Estimated Quantitation Limits Used by ML

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Acetone	g/L	EPA8260B	10.0/500
Actinium-228	Ⓒi/mL	RADA-013	5.12E-08/6.77E-08
Antimony-125	Ⓒi/mL	RADA-013	4.06E-08/4.27E-08
Barium-133	Ⓒi/mL	RADA-013	2.26E-08/3.29E-08
Benzene	g/L	EPA8260B	1.0/50.0
Bismuth-214	Ⓒi/mL	RADA-013	2.81E-08/3.22E-08
Bromodichloromethane	g/L	EPA8260B	1.0/50.0
Bromoform	g/L	EPA8260B	1.0/50.0

## Analytical Data Review



<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Bromomethane	g/L	EPA8260B	1.0/50.0
Carbon disulfide	g/L	EPA8260B	5.0/250
Carbon tetrachloride	g/L	EPA8260B	1.0/50.0
Cesium-134	µi/mL	RADA-013	1.25E-08/2.67E-08
Cesium-137	µi/mL	RADA-013	1.63E-08/2.02E-08
Chlorobenzene	g/L	EPA8260B	1.0/50.0
Chloroethane	g/L	EPA8260B	1.0/50.0
Chloroethene	g/L	EPA8260B	1.0/50.0
Chloroform	g/L	EPA8260B	1.0/50.0
Chloromethane	g/L	EPA8260B	1.0/50.0
Cobalt-60	µi/mL	RADA-013	1.33E-08/2.21E-08
Dibromochloromethane	g/L	EPA8260B	1.0/50.0
1,1-Dichloroethane	g/L	EPA8260B	1.0/50.0
1,2-Dichloroethane	g/L	EPA8260B	1.0/50.0
1,1-Dichloroethylene	g/L	EPA8260B	1.0/50.0
1,2-Dichloroethylene	g/L	EPA8260B	1.0/50.0
cis-1,2-Dichloroethylene	g/L	EPA8260B	1.0/50.0
trans-1,2-Dichloroethylene	g/L	EPA8260B	1.0/50.0
Dichloromethane	g/L	EPA8260B	10.0/500
1,2-Dichloropropane	g/L	EPA8260B	1.0/50.0
cis-1,3-Dichloropropene	g/L	EPA8260B	1.0/50.0
trans-1,3-Dichloropropene	g/L	EPA8260B	1.0/50.0
Ethylbenzene	g/L	EPA8260B	1.0/50.0
Europium-152	µi/mL	RADA-013	4.15E-08/5.04E-08
Europium-154	µi/mL	RADA-013	4.61E-08/6.51E-08
Europium-155	µi/mL	RADA-013	4.43E-08/4.8E-08
Gross alpha	µi/mL	RADA-001	9.38E-10/2.3E-08
	µi/mL	RADA-001B	1.05E-08/1.94E-08
	µi/mL	EPA900.0	7.63E-10/1.88E-08
2-Hexanone	g/L	EPA8260B	5.0/250
Lead-212	µi/mL	RADA-013	2.49E-08/3.01E-08
Lead-214	µi/mL	RADA-013	2.76E-08/3.49E-08
Methyl ethyl ketone	g/L	EPA8260B	5.0/250
Methyl isobutyl ketone	g/L	EPA8260B	5.0/250
Nonvolatile beta	µi/mL	RADA-001	4.76E-09/1.58E-08
	µi/mL	RADA-001B	1.13E-08/1.65E-08
	µi/mL	EPA900.0	1.16E-08/1.54E-08
Potassium-40	µi/mL	RADA-013	1.79E-07/2.44E-07
Promethium-146	µi/mL	RADA-013	3.26E-08/3.54E-08
Styrene	g/L	EPA8260B	1.0/50.0
1,1,2,2-Tetrachloroethane	g/L	EPA8260B	1.0/50.0
Tetrachloroethylene	g/L	EPA8260B	1.0/50.0
Thallium-208	µi/mL	RADA-013	2.82E-08/4.88E-08
Toluene	g/L	EPA8260B	1.0/50.0
1,1,1-Trichloroethane	g/L	EPA8260B	1.0/50.0
1,1,2-Trichloroethane	g/L	EPA8260B	1.0/50.0
Trichloroethylene	g/L	EPA8260B	1.0/50.0
Tritium	µi/mL	RADA-002	4.88E-07/2.51E-06
Vinyl acetate	g/L	EPA8260B	5.0/250
Xylenes	g/L	EPA8260B	1.0/50.0

## Analytical Data Review



Table 15. Methods and Estimated Quantitation Limits Used by SC

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Actinium-228	pCi/mL	SCA-337	1.88E-08/4.71E-08
Americium-241	pCi/mL	SCA-330	3.51E-10/7.26E-10
Antimony-125	pCi/mL	SCA-337	1.04E-08/2.92E-08
Barium-133	pCi/mL	SCA-337	4.94E-09/1.31E-08
Bismuth-214	pCi/mL	SCA-337	1.35E-08/2.69E-08
Carbon-14	pCi/mL	SCA-320	7.43E-09
Cesium-134	pCi/mL	SCA-337	3.58E-09/1.12E-08
Cesium-137	pCi/mL	SCA-337	3.69E-09/9.22E-09
Cobalt-60	pCi/mL	SCA-337	3.97E-09/1.27E-08
Curium-242	pCi/mL	SCA-330	3.54E-10/7.5E-10
Europium-152	pCi/mL	SCA-337	9.53E-09/2.5E-08
Europium-154	pCi/mL	SCA-337	6.57E-09/1.72E-08
Europium-155	pCi/mL	SCA-337	1.07E-06/2.97E-06
Gross alpha	pCi/mL	SCA-335	1.32E-09/4.01E-09
Iodine-129	pCi/mL	SCA-344	3.56E-09/5.18E-09
Lead-212	pCi/mL	SCA-337	7.17E-09/2.46E-08
Lead-214	pCi/mL	SCA-337	7.5E-09/2.46E-08
Neptunium-237	pCi/mL	SCA-341	3.14E-10/1.13E-09
Nonvolatile beta	pCi/mL	SCA-335	1.38E-09/2.85E-09
Plutonium-238	pCi/mL	SCA-330	3.79E-10/2.22E-09
Potassium-40	pCi/mL	SCA-337	5.7E-08/1.95E-07
Promethium-146	pCi/mL	SCA-337	4.83E-08/1.32E-06
Radium-226	pCi/mL	SCA-318	4.2E-11/2.3E-10
Radium-228	pCi/mL	SCA-319	4.07E-10/7.53E-10
Radium, total alpha-emitting	pCi/mL	SCA-334	4.36E-10/1.08E-09
Strontium-90	pCi/mL	SCA-333	3.59E-10/7.25E-10
Technetium-99	pCi/mL	SCA-342	3.51E-09/3.54E-09
Thallium-208	pCi/mL	SCA-337	4.81E-09/1.4E-08
Thorium-228	pCi/mL	SCA-330	3.95E-10/3.4E-09
Thorium-230	pCi/mL	SCA-330	3.78E-10/1.17E-09
Thorium-232	pCi/mL	SCA-330	3.94E-10/1.54E-09
Tritium	pCi/mL	SCA-339	2.4E-07/5.14E-07
Uranium-235	pCi/mL	SCA-330	3.98E-10/1.83E-09
Uranium-238	pCi/mL	SCA-330	5.29E-10/1.79E-09

Table 16. Methods and Estimated Quantitation Limits Used by TM

<b>Analyte</b>	<b>Unit</b>	<b>Method</b>	<b>Minimum/Maximum EQLs</b>
Iodine-129	pCi/mL	EPA902.0MOD	1.91E-09/5.79E-09
Radium-228	pCi/mL	EPA904.0MOD	1.37E-09/2.23E-09
Strontium-90	pCi/mL	EMLSR02MOD	8.7E-10/1.86E-09
Technetium-99	pCi/mL	EICHROMTC1MOD	1.31E-09/4.49E-08



NOTES



# Quality Control Samples

This section discusses the analytical data in terms of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. Precision is determined from the field and laboratory duplicate or replicate analyses and indicates the consistency of field and laboratory techniques. Accuracy is determined from the quality control standards, laboratory data records reviews, laboratory control samples or blank spikes, surrogates, matrix spikes, and the results of method, field, and trip blanks and indicates the ability of the laboratory to generate correct results. (Equipment blanks are used to evaluate the effectiveness of the cleaning procedures used in the field.) Representativeness is the determination of how well the sample reflects the site's characteristics. Comparability expresses the confidence with which data from different laboratories are considered to be equivalent. Completeness measures the amount of useable data resulting from the data collection activity.

## PRECISION

Precision is a measure of the repeatability of a measurement and is evaluated from the results of duplicate samples and splits. Blind replicates, or field replicates, measure the repeatability of the sampling and analytical techniques, and laboratory duplicates measure the ability of the laboratory to reproduce a result. Split samples measure whether two laboratories using comparable procedures obtain equivalent results. Low precision can be caused by poor instrument performance, poor operator technique, inconsistent application of method protocols, laboratory environment, time between analyses, or by a difficult, heterogeneous sample matrix.

## Replicate and Duplicate Analyses of Samples

Blind replicate and duplicate samples are analyzed to establish the precision of scheduled analyses. The replicate and duplicate analytical results are used to generate Mean Relative Difference (MRD) indices, which are used to evaluate the laboratories' performances.

The primary laboratories, GE, ML, and WA, performed all analyses with the following exceptions: GP and TM performed radionuclide analyses for GE and WA. ML conducted gross alpha, nonvolatile beta, and tritium analyses. SC performed gross alpha, nonvolatile beta, tritium, and selected radionuclide analyses.

For intralaboratory comparisons, generally 10% of the samples are analyzed in duplicate. In addition, EPD/EMS sends blind replicates of approximately 5% of the total samples to the laboratories for analysis. The results of the blind replicate analyses are used for both intralaboratory and interlaboratory comparisons.

All second quarter 2001 analytical results that have undergone the standard WSRC verification and validation process are included in the **Analytical Results** section (**Appendix B**) of this report). Results from duplicate samples are included in the main table for a given well and sample date. Results from analyses of replicate samples and duplicate analyses of the replicates are reported in a second table for the same well and sample date.

Table 17 lists the well names, sample dates, and associated blanks for wells used as blind replicates for GE, WA, and ML.

Certain analytes were not present in concentrations above estimated quantitation limits in any well samples having replicates or duplicates. These analytes are not considered in further evaluation of replicate and duplicate analyses and are listed in tables 18 and 19. See tables 11–16 for the estimated quantitation limits that are applicable this quarter.

## *Intralaboratory Comparisons*

Intralaboratory comparisons are of two types: in-house duplicates and blind replicates. The MRD was developed by R.C. Tuckfield of the Applied Statistics Group at the Savannah River Technology Center, in conjunction with M.M. Khalil of EPD/EMS, to assess the reproducibility of identical chemical analyses. For both intralaboratory comparisons, the MRD is defined as the average absolute difference between an original sample and its duplicate or blind replicate, expressed as a percentage of the mean of those two values. It is calculated as



$$MRD = \left\{ \frac{\sum_{i=1}^n \left( |x_i - y_i| / \left[ (x_i + y_i) / 2 \right] \right)}{n} \right\} \times 100,$$

where

$x_i$  = an analyte's mean concentration  
in a water sample for the  $i^{th}$  well,

$y_i$  = the analyte's mean concentration  
in the replicate or duplicate, and

$n$  = the number of pairs of observations.

For the in-house duplicate comparisons, the quantities  $x_i$  and  $y_i$  represent the results for the original sample and the in-house duplicate, respectively. For the blind replicate comparisons,  $x_i$  and  $y_i$  represent the results for the known sample and the EPD blind replicate, respectively. Generally, the closer the original results and their replicate or duplicate results are to each other, the lower the MRD.

### An Adjusted Mean Relative Difference

A drawback to the MRD statistic occurs when  $x_i$  and  $y_i$  are close to zero. This drawback can be illustrated by determining the relative difference (RD) for the  $i^{th}$  well or sample as follows:

$$RD_i = \frac{|x_i - y_i|}{z_i}$$

$$\text{where } z_i = \left( \frac{x_i + y_i}{2} \right)$$

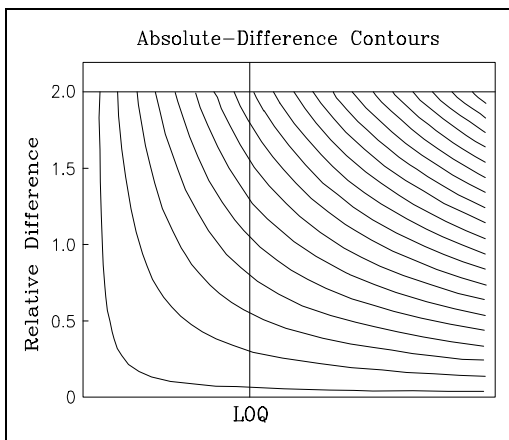


Figure 4. Relative Difference vs. the Mean

The  $RD_i$  is an individual term in the MRD calculation for the  $i^{th}$  replicated sample. For example, if  $x_i = 99$  and  $y_i = 101$ , then  $RD_i = 2\%$ . However, if  $x_i = 3$  and  $y_i = 1$ , then  $RD_i = 100\%$ . Both situations have the same absolute difference, but the latter situation has a much larger relative difference. The effect can be shown by graphing the relative difference vs. the mean ( $z_i$ ) and marking contours for constant levels of absolute difference (figure 4). The first contour, in the lower left corner of the figure, represents the smallest absolute difference. The last contour, in the upper right corner of the figure, represents the largest absolute difference.



The inordinate inflation of the MRD when  $x_i$  and  $y_i$  are near zero is of particular concern when the results are below the limit of quantitation (LOQ). Briefly, the LOQ is defined by L.H. Keith (1991) as 10 times the instrument signal standard deviation ( $\sigma$ ) for blank samples. For perspective, the limit of detection is defined as  $3\sigma$ .

The reproducibility of analytical results less than the LOQ is considered by environmental chemists to be questionable. In this situation, the  $RD_i$  may reflect variation more in the measuring device itself than in the measuring process. However, the MRD can be a useful statistic if adjusted so that results below the LOQ have less influence than more reproducible results above the LOQ.

The simplest adjustment to the MRD to reduce the influence of analyte concentrations near zero is to weight each  $RD_i$  in the calculation by an amount,  $w_i$ , that reflects its proximity to the LOQ value. Figure 5 shows the relationship between  $w_i$  and analyte concentration. This relationship is a linear-weight function.

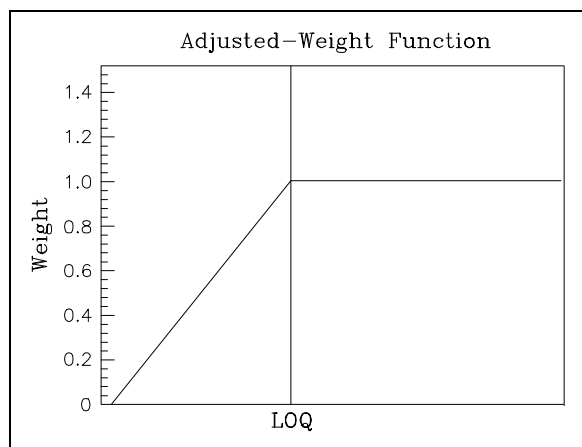


Figure 5. Relationship between  $w_i$  and Analyte Concentration

Figure 6 shows the computer simulation results for the effect of a linear-weight function on the now-adjusted MRD (MRDadj), developed by Tuckfield and Khalil, again by determining constant contours of absolute difference. Below the LOQ, all samples with the same absolute difference are given the same adjusted RD value. Above the LOQ, the unadjusted RD is preserved because the weight function is unity when  $z_i$  is greater than the LOQ.

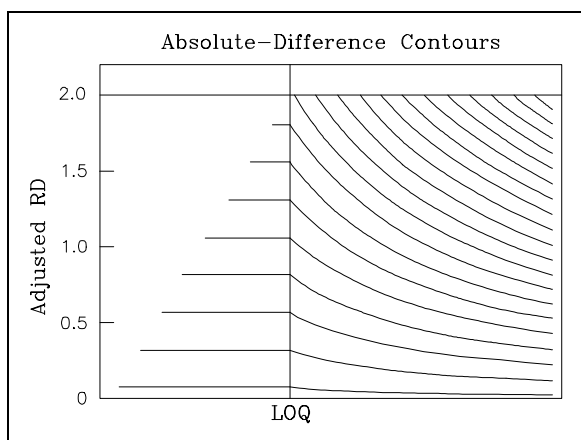


Figure 6. Effect of a Linear-Weight Function on the MRDadj



The MRDadj, then, has the following form:

$$\text{MRDadj} = \frac{\sum_{i=1}^n w_i \text{RD}_i}{n},$$
$$\text{where } w_i = \begin{cases} \frac{z_i}{\text{LOQ}} & ; \text{ if } z_i < \text{LOQ} \\ 1 & ; \text{ otherwise.} \end{cases}$$

This adjustment has several advantages. For example, the weight function reflects the chemist's view of the reliability of the measurement. If analyses are conducted on different equipment (i.e., with different LOQs), the precision of the equipment is included automatically in the MRD. Data from more precise equipment are given more influence. Also, no data are removed from the computation completely, so the sample size ( $n$ ) is not affected.

### Normalizing Data to the Reference Detection Limit

Because some detection limits may be anomalously high (because of dilution or other effects, for example), it is necessary to use a reference detection limit (RDL) in the MRD calculations. This is set as the 90th percentile value of the detection limits of the not-detected samples. All the results less than the RDL are adjusted up to that value. Results that are detection limit values above the RDL are eliminated from the MRD index calculations. By definition, fewer than 10% of the detection limit values are above the RDL. The intralaboratory MRD indices are listed in tables 20–25. Table 21 provides the intralaboratory MRD matrix spike indices for GE.

### Interlaboratory Comparisons

For interlaboratory comparisons, the MRD is calculated as the average absolute difference between the laboratories for the  $i^{\text{th}}$  well expressed as a percentage of the mean of both laboratories. For these comparisons,  $x_i$  and  $y_i$  represent the mean analyte concentrations for the  $i^{\text{th}}$  well;  $x_i$  represents the mean from one laboratory, and  $y_i$  represents the mean from the other. The means are calculated from the known sample results and the EPD blind replicate results.

### Choosing an RDL

For interlaboratory comparisons, a new RDL must be established for calculation of the MRD. The interlaboratory RDL is chosen as the 90th percentile value from the combined array of non-detected sample results from both laboratories.

### Normalizing Data to the RDL

All results less than the RDL are adjusted to the new RDL value. Detection limit values above the RDL are eliminated from the MRD index comparison and from the  $t$ -tests. By definition, fewer than 10% of the detection limit values are above the RDL. In addition to the interlaboratory MRD calculations, paired  $t$ -tests are performed to see if the difference between the mean concentrations of an analyte from the same well reported by each laboratory is significant. The  $t$ -test tests the null hypothesis that there is no significant difference in the concentrations reported by the two laboratories. The MRD and the  $t$ -test results for analytes with at least one pair of results above the interlaboratory RDL are listed in tables 26–30.

Analytes with significance-of-probability values less than .050 (tables 26–30) indicate a probability of less than 5% that the results for that analyte are the same from both laboratories.



## Presentation of the Replicate and Duplicate Analyses

In tables 26–30, high MRDs (greater than or equal to 20) appear in bold type. Low MRDs (less than or equal to .050) appear in bold italic type.

Table 31 lists analytes and wells for which samples and blind replicates analyzed by GE yielded results where one was more than twice another.

Table 32 lists analytes and wells for which samples and blind replicates analyzed by WA yielded results where one was more than twice another.

Table 33 lists analytes and wells for which samples and laboratory duplicates analyzed by WA yielded results where one was more than twice another.

Table 34 lists analytes and wells for which samples and blind replicates analyzed by GP yielded results where one was more than twice another.

Table 35 lists analytes and wells for which samples and laboratory duplicates analyzed by GP yielded results where one was more than twice another.

Tables 36–39 list analytes and wells where a result from one laboratory was more than twice the corresponding result from the other laboratory.

See the **Analytical Methods** subsection of the **Analytical Data Review** section of this report for more information.

## ACCURACY

Accuracy is defined as the closeness of agreement between an observed value and an accepted reference value or as a measure of the over- or underestimation of reported concentrations. Accuracy is especially important when the concentration of concern approaches the detection limit and/or the action limit. When the concentration is underestimated near the detection limit, the analyte may be present but reported as not detected; near the action limit, the analyte may be at a concentration that would require remediation, but the remediation would not be performed. When the concentration is overestimated near the detection limit, the analyte may not be present but reported as detected; near the action limit, the analyte may not be at a concentration that would require remediation, but the remediation would be performed. Quality control standards, laboratory data records reviews, performance evaluation studies, laboratory control samples, surrogate and matrix spikes, and method blanks are used to evaluate accuracy.

## Quality Control Standards

During second quarter 2001, EPD/EMS conducted quality assessments of GE, WA, EM, ML, and MS laboratories. Each laboratory received a set of certified environmental quality control standards from Environmental Resource Associates (ERA) of Arvada, CO (lot numbers 443, 607, 610, 3245, 3247, 3436, 3448, 8926, 16120, 99106, 99110, and 99114). Each laboratory's results were compared with the ERA-certified values and performance acceptance limits (PALs). The PALs are listed as guidelines for acceptable analytical results given the limitations of the EPA methods used to determine these parameters. The PALs closely approximate the 95% confidence interval. GE, WA, EM, ML, and MS all returned results for second quarter 2001 quality control assessments. The laboratories' results and the certified values and limits are listed in tables 41–45. See table 40 for a listing of analyses that the laboratories were not requested to perform.

ERA recently became a certified producer of standards for the EPA Water Supply/Water Pollution (WS/WP) program. To accommodate this program, the compound list for several standards produced by ERA have been expanded to incorporate the full set of the National Environmental Laboratory Accreditation Conference (NELAC) analytes. Laboratories are now asked to identify standards which are below detection as well as those above detection.

NELAC is a voluntary association of State and Federal agencies with full opportunity for input from the private sector. NELAC's purpose is to establish and promote mutually acceptable performance standards for the

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### Quality Control Samples



operation of environmental laboratories. EPA's National Environmental Laboratory Accreditation Program (NELAP) provides support to NELAC and, once the standards are adopted by the States and Federal agencies, will oversee the accrediting authority programs.

WA analyzed total petroleum hydrocarbons by the infrared method and GE and WA analyzed grease and oil by the gravimetric method. The laboratories were requested to report m-cresol and p-cresol as m/p-cresol and m-xylene and p-xylene as m/p-xylene because current analytical methods do not allow them to separate these analytes reliably.

GE did not report results for acrylonitrile, m/p-cresol (3/4-methylphenol), 2-methyl-4,6-dinitrophenol, cis-1,3-dichloropropylene, trans-1,3-dichloropropylene, total kjeldahl nitrogen, and 1,1,2-trichloroethane.

WA did not report results for acrylonitrile, chrysene, cis-1,3-dichloropropylene, trans-1,3-dichloropropylene, total kjeldahl nitrogen, 2-methyl-4,6-dinitrophenol, and 1,1,2-trichloroethane.

ML did not report results for m/p-cresol (3/4-methylphenol), cis-1,3-dichloropropylene, trans-1,3-dichloropropylene, 2-methyl-4,6-dinitrophenol, and 1,1,2-trichloroethane.

MS did not report results for naphthalene and 3-nitroaniline.

EM performs only metals and volatiles analyses as specified in the certified values. However, due to instrument problems, EM laboratory personnel were unable to process the volatile samples.

One hundred eighty analyses were requested of GE. Of the 172 analyses reported by GE, 169, or 98.3%, were within the PALS; there was not enough information to determine whether four analyses were within the PALS.

One hundred eighty-one analyses were requested of WA. Of the 173 analyses reported by WA, 163, or 94.2%, were within the PALS; there was not enough information to determine whether eighteen analyses were within the PALS.

Seventy-three analyses were requested of EM. Of the 22 analyses reported by EM, 21, or 95.5%, were within the PALS.

One hundred twenty-nine analyses were requested of ML. Of the 125 analyses reported by ML, 118, or 94.4%, were within the PALS; there was not enough information to determine whether three analyses were within the PALS.

One hundred thirty-one analyses were requested of MS. Of the 130 analyses reported by MS, 120, or 92.3%, were within the PALS; there was not enough information to determine whether 31 analyses were within the PALS.

## Performance Evaluation

Over the past few months, ML participated in an EPA Laboratory Performance Evaluation Water Pollution (WP) study. EPA conducts the studies biannually to certify laboratories for specific analyses.

Table 46 contains results for WP77. In WP77, which was reported in August 2001, all ML results were within acceptance limits.

## Laboratory Data Records Review

Laboratory Data Records Reviews (LDRRs) are conducted periodically at laboratories that perform environmental analyses for WSRC. The purpose of the reviews is to investigate technical validation issues discussed in Superfund's Data Quality Objectives which are not adequately addressed by computer checking the AN98 electronic data deliverables, or by reviewing the analytical narratives or the COC forms. These technical issues include instrument calibration, analyte identification, and analyte quantitation. The issues are addressed by examining all initial calibration records for the period reviewed, continuing calibration records for randomly selected dates within the period reviewed, and selected sample records from those dates.

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## Quality Control Samples



The LDRR emphasizes programmatic laboratory behavior; a judgment is formed on whether the laboratory is or is not in compliance with WSRC requirements. However, if any QA/QC issues identified during the review are judged to be significant enough to affect data usability (R- and U-qualifier issues), then the affected data will be appropriately qualified. QA/QC issues that do not affect data usability (J-qualifier issues) are noted in the report, but do not result in requalification of data.

The LDRRs for second quarter 2001 were conducted at GE and GP, WA, and ML during August and September 2001. SC data were analyzed late in the quarter; consequently, these data will be reviewed in the third quarter review. The LDRR results are summarized below.

### *Second Quarter 2001 Records Review of GE and GP*

On August 28–30, 2001, laboratory records were reviewed for organic, inorganic, and radiochemical analyses associated with soil and groundwater samples conducted by GE and GP during second quarter 2001. No technical issues of concern were identified during the review.

### *Second Quarter 2001 Records Review of WA*

On September 5–7, 2001, laboratory data records were reviewed for inorganic and organic analyses associated with soil and groundwater samples conducted by WA during second quarter 2001. No technical issues of concern were identified during the review.

### *Second Quarter 2001 Records Review of ML*

On September 11–13, 2001, laboratory records were reviewed for organic and inorganic analyses associated with soil and groundwater samples conducted by ML during second quarter 2001. No technical issues of concern were identified during the review.

## Laboratory Control Samples

Laboratory control samples are used to monitor the performance of all steps in the analysis process, including sample preparation, and are used to identify problems with the analytical procedure. Laboratory control samples are deionized water spiked with selected target analytes, prepared, and analyzed with the regular samples for inorganic and radiological parameters. Blank spikes are organic-free water spiked with selected target analytes, prepared, and analyzed with the regular samples for organic parameters. The spiking solutions for laboratory control samples are obtained from the EPA or a third-party supplier, or they are prepared in the laboratory with chemicals from a different source than the calibration standards. All laboratory control standards are validated to EPA standards, as detailed in the **EGG Operating Handbook**, section 1.800, **Analytical Data Qualification**.

The percent recovery (% R) for laboratory control samples or blank spikes is calculated as

$$\% R = \frac{\text{Observed concentration}}{\text{Known concentration}} \times 100.$$

Tables 47–52 list the statistical information for the percent recovery for laboratory control samples by analyte for GE, WA, GP, ML, SC, and TM. The *Qualified Out of Range* column provides the number of laboratory control samples or blank spikes that had percent recoveries outside the acceptance limits compared to the total number analyzed; the other columns provide the mean recovery, standard deviation, and the minimum and maximum recoveries.

## *Surrogates*

Surrogates are analytes not normally found in environmental samples that are used to spike all samples, QC samples, and calibration standards for organic analyses. Surrogates are added prior to analysis for VOAs (volatile organic analyses) and prior to extraction for semivolatiles, pesticides, and herbicides. Low surrogate recovery is a measure of the effect of the sample matrix, high analyte concentration, or laboratory error. High surrogate recovery usually indicates instrument or sample preparation errors. All surrogates are validated to



EPA standards, as detailed in the WSRC *EGG Operating Handbook*, section 1.800, **Analytical Data Qualification**.

Tables 53–55 list the statistical information for the percent recovery for the surrogates by analyte for GE, WA, and ML. The *Qualified Out of Range* column gives the number of surrogates that had percent recoveries outside the acceptance limits compared to the total number analyzed; the other columns provide the mean recovery, standard deviation, and the minimum and maximum recoveries.

### Matrix Spikes

Matrix spikes are used to evaluate the effect of the sample matrix on the analytical procedure. Matrix spikes are prepared by adding a known quantity of the target analyte to at least 5% of the samples prior to sample preparation. For the inorganic analyses, all target analytes are spiked. For the organic analyses, selected target analytes are used in the spiking solution. Results from the matrix spike are used to evaluate the extent of matrix interference and to determine the bias of the procedure for the sample matrix. Matrix spikes have the same recovery limits as laboratory control samples.

The percent recovery for matrix spikes is calculated as

$$\% R = \frac{SSR - SR}{SA} \times 100,$$

where

% R = percent recovery

SSR = spiked sample result

SR = sample result, and

SA = spike added.

Percent bias in tables 56–59 is the difference between 100% and the mean recovery; a negative value indicates that the mean recovery was below 100%. If the bias is consistently positive, the laboratory may be overestimating the concentration of the analyte, and if the bias is consistently negative, the laboratory may be underestimating the concentration of the analyte. Results close to the quantitation and action limits should be closely examined, and their use in decision-making should be carefully considered.

Matrix spikes are rejected if the concentration of the analyte in the sample is more than four times the amount of the spike. Results for matrix spikes are provided in tables 56–59 for GE, WA, GP, and ML. The *Qualified Out of Range* column provides the number of matrix spikes that had percent recoveries outside the acceptance limits compared to the total number analyzed; the other columns provide the mean recovery, standard deviation, percent bias, and the minimum and maximum recoveries.

### Method Blanks

Method blanks, or laboratory blanks, are used to determine the existence and magnitude of contamination problems resulting from the analytical process. Method blanks are deionized water to which all reagents are added in the same proportions used in sample processing. When method blanks have detectable concentrations of the analytes, the laboratory must determine the cause and take corrective action to eliminate the contamination.

Tables 60–65 list the statistical information for analytes detected in method blanks for GE, WA, GP, ML, SC, and TM. The *Frequency of Detection* column provides the number of method blanks analyzed for each analyte during the quarter that had detectable concentrations compared to the total number that were analyzed. The other columns list the mean result, standard deviation, and minimum and maximum results.



## Field Blanks

Field blanks (called QA blanks in the tables) are used to identify possible sources of contamination from the processing and shipping of samples. Field blanks are sample bottles filled with deionized water prior to well sampling; the bottles are not opened at the sampling site. The field blanks are sent along with, and analyzed in the same manner as, the samples. Positive results from field blanks can result from analytical bias, contaminated sample bottles, contaminated deionized water, or contamination during shipping or analysis. The results from all samples in the sample delivery group are evaluated by the laboratory and data validators to determine the cause of the contamination and the corrective action to be taken.

Tables 66–69 list the statistical information for the field blanks by analyte for GE, WA, GP, and ML. The *Frequency of Detection* column gives the number of field blanks analyzed for each analyte during the quarter that had detectable concentrations compared to the total number analyzed. The other columns list the mean result, standard deviation, and minimum and maximum results.

## Trip Blanks

Trip blanks are vials of deionized water sent to the laboratory for volatiles analysis with each shipping cooler containing volatiles samples. Trip blanks are used to check for contamination resulting from shipping, primarily due to the breaking of the vial's seal because of depressurization during air transport. Trip blanks are used also to test the laboratories' reliability. The blanks are prepared by adding preservative to a 40 mL vial, filling it completely with deionized water, and sealing the top with a Teflon-lined septum cap. The results from all samples in the sample delivery group are evaluated by the laboratory and data validators to determine the cause of the contamination and the corrective action to be taken.

Tables 70–72 list the statistical information for the analytes detected in trip blanks by GE, WA, and ML. The *Frequency of Detection* column gives the number of trip blanks analyzed for each analyte during the quarter that had detectable concentrations compared to the total number analyzed. The other columns list the mean result, standard deviation, and minimum and maximum results.

## Equipment Blanks or Rinsates

Equipment blanks (called EPT blanks in the tables) or rinsates are used to determine if sampling equipment that has been cleaned in the field is contaminated. Prior to sampling, deionized water is poured over or pumped through portions of the sampling equipment that come in contact with the sample. If the equipment blank is contaminated, the field cleaning procedure must be evaluated to determine the cause of the contamination. Results for all samples collected with equipment cleaned in the field must be evaluated to determine whether the contamination is isolated or generalized.

Table 73 lists the statistical information for the analytes detected in equipment blanks for WA. The *Frequency of Detection* column gives the number of equipment blanks analyzed for each analyte during the quarter that had detectable concentrations compared to the total number analyzed. The other columns list the mean result, standard deviation, and minimum and maximum results.

## Blanks Results

The blanks results tables in **Appendix C** list the dates, field measurements, and analytical results for the sampling blanks. See **Appendix B** for a key to the abbreviations used in the tables.

## REPRESENTATIVENESS

A representative sample is a sample that can be expected to exhibit the average properties of the population being sampled. Representativeness for groundwater samples can be affected by using a bailer to collect the sample from the well, metal casings in the well, and turbidity (suspended particulates) in the sample. The results may be biased positively or negatively.

If a well is bailed, VOAs are biased negatively due to aeration of the sample in the sampling process. Table 74 lists the wells that were bailed during second quarter 2001.



For metal casings, the bias for metals can be positive or negative depending on whether the casing is releasing or absorbing metals. Table 75 lists the wells with metal casings that were sampled during second quarter 2001.

If turbidity is greater than 15 NTU, the metals can be biased positively or negatively, and the radionuclides—particularly those that are determined by gamma spectroscopy—can be masked due to self-absorption. Table 76 lists the wells that had turbidity results greater than 15 NTU during second quarter 2001.

## COMPARABILITY

Comparability is evaluated by confirming that the laboratories used the same standardized procedures for sample preparation and analysis, that the reporting units are the same, and that similar quantitation limits were obtained. The analytical methods, reporting units, and EQLs reported by each laboratory are given in tables 11–16 in the **Analytical Data Review** section. Tables 36–39 list the analytes and wells where a result from one laboratory was more than twice the corresponding result from the other laboratory.

## COMPLETENESS

Completeness is evaluated by comparing the wells scheduled for sampling with the wells sampled and comparing the requested analyses with the analytical data received. The number of wells sampled and the requested analyses are determined from the chains of custody. Tables 77–78 list the reasons the laboratories did not perform certain analyses on samples from wells that could be sampled. For second quarter 2001, only GE and WA did not perform certain analyses. See the **Sample Scheduling**, **Field Notes**, and **Analytical Results** sections of this report for more information on wells scheduled but not sampled this quarter.

*Table 17. Wells Providing Blind Replicate Samples and Associated Blanks*

<i>Well</i>	<i>Sample Date</i>	<i>Replicate</i>	<i>Associated Blank</i>
FSB 76A	04/23/01	QA 1B	QA 2B
FSB 78B	04/23/01	QA 3B	QA 4B
FSB 89C	04/23/01	QA 5B	QA 6B
FSB 98AR	04/25/01	QA 7B	QA 8B
FSB114A	04/25/01	QA 9B	QA 10B
HSB 65A	04/03/01	QA 11B	QA 12B
HSB 83C	04/04/01	QA 13B	QA 14B
HSB 86C	05/02/01	QA 15B	QA 16B
HSB118A	04/11/01	QA 17B	QA 18B
HSB124AR	04/12/01	QA 19B	QA 20B
HSB133C	04/10/01	QA 21B	QA 22B
HSB144A	04/12/01	QA 23B	QA 24B
RWM 1	04/30/01	QA 25B	Not applicable
RWM 7	05/09/01	QA 27B	Not applicable
RWM 14B	06/04/01	QA 29B	Not applicable
LFW 43B	04/17/01	QA 31B	QA 32B
LFW 58D	04/17/01	QA 33B	QA 34B
ARP 8D	04/09/01	QA 35B	Not applicable
FBI 5D	05/16/01	QA 39B	QA 40B
FSB 94DR	05/22/01	QA 41B	QA 42B
DBP 4	05/18/01	QA 43B	QA 44B
PSB 3A	05/17/01	QA 45B	QA 46B
BGO 6A	05/14/01	QA 47B	QA 48B
BGO 14AR	05/16/01	QA 49B	QA 50B
BSW 1C4	05/23/01	QA 51B	QA 52B
BGO 11DR	06/16/01	QA 53B	QA 54B
BGO 12AX	05/16/01	QA 55B	QA 56B
BGO 15D	06/15/01	QA 57B	QA 58B
BGO 27C	06/14/01	QA 59B	QA 60B

## Quality Control Samples



<i>Well</i>	<i>Sample Date</i>	<i>Replicate</i>	<i>Associated Blank</i>
BGO 33C	06/07/01	QA 61B	QA 62B
BGO 37C	06/05/01	QA 63B	QA 64B
BGO 39A	05/08/01	QA 65B	QA 66B
BSW 5D1	05/23/01	QA 67B	QA 68B
BSW 8D2	06/06/01	QA 69B	QA 70B
MCB 14C	06/15/01	QA 71B	QA 72B
MSB 49B	06/14/01	QA 73B	Not applicable
KCB 3	05/03/01	QA 75B	QA 76B
KRP 5	05/16/01	QA 77B	QA 78B
PRP 7	05/16/01	QA 79B	QA 80B
SSM 15B2	06/19/01	QA 81B	Not applicable
SRW 17DR	05/14/01	QA 83B	Not applicable
DOB 15	06/06/01	QA 85B	QA 86B
MSB 38TB1	05/24/01	QA 87B	Not applicable
MSB 93TB3	05/23/01	QA 89B	Not applicable
LFW 59C	06/25/01	QA 93B	QA 94B
TBG 1	06/07/01	QA 95B	QA 96B
TNX 11D	06/02/01	QA 97B	QA 98B
FBI 10D	06/14/01	QA111B	QA112B
FSB 78	06/21/01	QA113B	QA114B
FEX 10	06/26/01	QA115B	QA116B

*Table 18. Analytes Not Showing Measurable Concentrations above Estimated Quantitation Limits in Any Replicated or Duplicated Samples for GE, WA, and ML*

<i>Analyte</i>	<i>Number of Analyses</i>		
	<i>GE</i>	<i>WA</i>	<i>ML</i>
Acetonitrile	—	8	—
Acrolein	—	8	—
Acrylonitrile	—	8	—
Allyl chloride	—	8	—
Antimony	37	31	—
Benzene	26	49	9
Benzo[a]anthracene	2	1	—
Benzo[b]fluoranthene	2	1	—
Benzo[k]fluoranthene	2	1	—
Benzo[a]pyrene	2	1	—
Bis(2-ethylhexyl) phthalate	4	2	—
Boron	6	26	—
Bromodichloromethane	24	48	9
Bromoform	24	48	9
Bromomethane	24	48	9
Cadmium, dissolved	5	5	—
Carbon disulfide	1	11	6
Chlorobenzene	24	48	9
Chloroethane	24	48	9
2-Chloroethyl vinyl ether	21	21	—
Chloromethane	25	51	9
Chloroprene	—	8	—
Chrysene	2	1	—
Cyanide	52	30	—
Dibromochloromethane	24	48	9
1,2-Dibromo-3-chloropropane	—	8	—
1,2-Dibromoethane	2	8	—

### *Quality Control Samples*



<i>Analyte</i>	<i>Number of Analyses</i>		
	<i>GE</i>	<i>WA</i>	<i>ML</i>
Dibromomethane	—	8	—
trans-1,4-Dichloro-2-butene	—	8	—
Dichlorodifluoromethane	—	8	—
1,2-Dichloroethane	24	48	9
1,2-Dichloroethylene	—	10	6
trans-1,2-Dichloroethylene	23	52	12
1,2-Dichloropropane	24	48	9
cis-1,3-Dichloropropene	24	48	9
trans-1,3-Dichloropropene	24	48	9
Endrin	2	2	—
Ethylbenzene	24	48	9
2-Hexanone	1	11	6
Hydroxide alkalinity	4	—	—
Iodomethane	—	8	—
Isobutyl alcohol	—	8	—
Mercury, dissolved	3	5	—
Methacrylonitrile	—	8	—
Methyl ethyl ketone	1	11	6
Methyl isobutyl ketone	1	11	6
Methyl methacrylate	—	8	—
Octachlorodibenzo-p-dioxin	2	2	—
PCB 1254	—	2	—
PCB 1260	2	2	—
Phenols	21	26	—
Propionitrile	—	8	—
Selenium, dissolved	5	5	—
Selenium	26	41	—
Silver, dissolved	5	5	—
Silver	26	41	—
Styrene	1	11	6
1,1,1,2-Tetrachloroethane	—	8	—
1,1,2,2-Tetrachloroethane	24	48	9
Tin	6	26	—
Toluene	24	48	9
1,2,3-Trichloropropane	—	8	—
Vanadium	31	5	—
Vinyl acetate	1	11	6

— No replicate or duplicate analyses were performed.

*Table 19. Analytes Not Showing Measurable Concentrations above Estimated Quantitation Limits in Any Replicated or Duplicated Samples for GP, TM, and ML*

<i>Analyte</i>	<i>Number of Analyses</i>		
	<i>GP</i>	<i>TM</i>	<i>ML</i>
Antimony-125	29	2	2
Barium-133	14	2	2
Bismuth-212	12	—	—
Cerium-144	2	—	—
Cesium-134	29	2	2
Cobalt-57	2	—	—
Curium-242	30	—	3
Europium-152	29	2	2
Europium-154	29	2	2
Manganese-54	2	—	—

### *Quality Control Samples*



<i>Analyte</i>	<i>Number of Analyses</i>		<i>ML</i>
	<i>GP</i>	<i>TM</i>	
Nickel-63	6	—	—
Plutonium-239/240	32	—	—
Promethium-144	2	—	—
Promethium-146	29	2	3
Ruthenium-106	2	—	—
Sodium-22	2	—	—
Thorium-234	2	—	—
Yttrium-88	2	—	—
Zinc-65	4	—	—

— No replicate or duplicate analyses were performed.

*Table 20. Intralaboratory MRD Indices for GE*

<i>Analyte</i>	<i>RDL</i>	<i>In-house Duplicates</i>			<i>Blind Replicates</i>		
		<i>Number of Dup. Pairs</i>	<i>MRD</i>	<i>MRDadj</i>	<i>Number of Dup. Pairs</i>	<i>MRD</i>	<i>MRDadj</i>
Acetone	5.0 µg/L	0	—	—	0	—	—
Alkalinity (as CaCO <sub>3</sub> )	†	6	5.88	5.88	0	—	—
Aluminum, dissolved	50.0 µg/L	0	—	—	0	—	—
Aluminum	50.0 µg/L	0	—	—	9	1.04	1.04
Arsenic, dissolved	5.0 µg/L	0	—	—	0	—	—
Arsenic	5.0 µg/L	0	—	—	5	0.00	0.00
Barium, dissolved	5.0 µg/L	0	—	—	0	—	—
Barium	5.0 µg/L	0	—	—	4	2.08	2.08
Beryllium	5.0 µg/L	1	0.00	0.00	17	0.57	0.19
Cadmium	5.0 µg/L	1	0.00	0.00	9	1.00	0.41
Calcium, dissolved	†	0	—	—	0	—	—
Calcium	100 µg/L	0	—	—	4	10.71	10.71
Carbon tetrachloride	50.0 µg/L	0	—	—	3	0.00	0.00
Chloride	†	6	1.76	1.76	1	<b>78.57</b>	<b>78.57</b>
Chloroethene	20.0 µg/L	0	—	—	3	0.00	0.00
Chloroform	50.0 µg/L	0	—	—	3	0.00	0.00
Chromium, dissolved	5.0 µg/L	0	—	—	0	—	—
Chromium, hexavalent	10.0 µg/L	2	0.00	0.00	1	0.00	0.00
Chromium	5.0 µg/L	0	—	—	6	7.63	4.88
Cobalt	5.0 µg/L	0	—	—	4	4.14	4.14
Copper	5.0 µg/L	0	—	—	4	4.12	4.12
1,1-Dichloroethane	50.0 µg/L	0	—	—	3	0.00	0.00
1,1-Dichloroethylene	50.0 µg/L	0	—	—	3	0.00	0.00
cis-1,2-Dichloroethylene	1.0 µg/L	0	—	—	0	—	—
Dichloromethane	250 µg/L	0	—	—	4	0.00	0.00
Dissolved organic carbon	†	2	4.48	4.48	0	—	—
Iron, dissolved	50.0 µg/L	0	—	—	0	—	—
Iron	50.0 µg/L	0	—	—	3	<b>27.91</b>	<b>27.91</b>
Lead, dissolved	5.0 µg/L	0	—	—	0	—	—
Lead	5.0 µg/L	0	—	—	9	3.70	3.70
Lithium	10.0 µg/L	0	—	—	0	—	—
Magnesium, dissolved	†	0	—	—	0	—	—
Magnesium	20.0 µg/L	0	—	—	4	6.46	6.46
Manganese, dissolved	†	0	—	—	0	—	—
Manganese	†	0	—	—	4	3.61	3.61
Mercury	0.2 µg/L	0	—	—	11	19.06	18.90
Nickel	5.0 µg/L	0	—	—	4	6.00	5.21
Nitrate as nitrogen	50.0 µg/L	12	0.80	0.80	3	6.00	6.00

### *Quality Control Samples*



Analyte	RDL	<u>In-house Duplicates</u>			<u>Blind Replicates</u>		
		Number of Dup. Pairs	MRD	MRDadj	Number of Dup. Pairs	MRD	MRDadj
Nitrate-nitrite as nitrogen	50.0 µg/L	30	1.44	1.44	13	16.34	14.65
Nitrite as nitrogen	50.0 µg/L	12	0.66	0.55	3	<b>21.92</b>	9.80
pH	†	31	0.25	0.25	12	1.79	1.79
Potassium	†	0	—	—	3	3.87	3.87
Sodium, dissolved	†	0	—	—	0	—	—
Sodium	100 µg/L	0	—	—	4	3.07	3.07
Specific conductance	†	29	0.13	0.13	12	12.38	12.38
Sulfate	200 µg/L	18	1.10	1.10	4	8.74	8.74
Tetrachloroethylene	20.0 µg/L	0	—	—	4	11.15	11.15
Thallium	10.0 µg/L	0	—	—	11	0.00	0.00
Total dissolved solids	†	4	6.18	6.18	0	—	—
Total organic carbon	200 µg/L	2	7.46	5.11	0	—	—
Total organic halogens	10.0 µg/L	4	3.66	3.66	0	—	—
Total phosphates (as P)	60.0 µg/L	9	0.00	0.00	4	10.99	3.75
1,1,1-Trichloroethane	50.0 µg/L	0	—	—	3	0.00	0.00
1,1,2-Trichloroethane	50.0 µg/L	0	—	—	4	0.00	0.00
Trichloroethylene	1.0 µg/L	0	—	—	4	15.52	15.52
Trichlorofluoromethane	50.0 µg/L	0	—	—	3	0.00	0.00
Xylenes	3.0 µg/L	0	—	—	0	—	—
Zinc	5.0 µg/L	0	—	—	4	4.02	4.02

† No detection limit, or no replicate or duplicate results below detection limit.

— No replicate or duplicate analyses could be calculated.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.

Table 21. Intralaboratory MRD Matrix Spike Indices for GE

Analyte	RDL	<u>In-house Duplicates</u>		
		Number of Dup. Pairs	MRD	MRDadj
Acenaphthene	†	2	4.62	4.62
Acenaphthylene	†	2	6.80	6.80
Anthracene	†	2	0.63	0.63
Benzene	†	32	2.95	2.95
Benzidine	†	2	<b>71.43</b>	<b>71.43</b>
Benzo[a]anthracene	†	6	0.57	0.57
Benzo[b]fluoranthene	†	6	3.13	3.13
Benzo[k]fluoranthene	†	6	1.87	1.87
Benzo[g,h,i]perylene	†	2	3.68	3.68
Benzo[a]pyrene	†	6	1.66	1.66
Bis(2-chloroethoxy) methane	†	2	8.10	8.10
Bis(2-chloroethyl) ether	†	2	10.62	10.62
Bis(2-chloroisopropyl) ether	†	2	11.76	11.76
Bis(2-ethylhexyl) phthalate	†	14	6.56	6.56
4-Bromophenyl phenyl ether	†	2	3.71	3.71
Butylbenzyl phthalate	†	2	0.00	0.00
4-Chloroaniline	†	2	0.97	0.97
Chlorobenzene	†	30	3.22	3.22
4-Chloro-m-cresol	†	2	0.57	0.57
2-Chloronaphthalene	†	2	8.12	8.12
2-Chlorophenol	†	2	6.64	6.64
4-Chlorophenyl phenyl ether	†	2	5.09	5.09

### Quality Control Samples



<i>Analyte</i>	<i>RDL</i>	<i>In-house Duplicates</i>		
		<i>Number of Dup. Pairs</i>	<i>MRD</i>	<i>MRDadj</i>
Chrysene	†	6	3.25	3.25
m/p-Cresol	†	2	6.54	6.54
o-Cresol	†	2	5.19	5.19
Dibenz[a,h]anthracene	†	2	8.18	8.18
Dibenzofuran	†	2	2.90	2.90
Di-n-butyl phthalate	†	2	1.95	1.95
1,2-Dichlorobenzene	†	2	14.29	14.29
1,3-Dichlorobenzene	†	2	6.53	6.53
1,4-Dichlorobenzene	†	2	8.81	8.81
3,3'-Dichlorobenzidine	†	2	6.52	6.52
1,1-Dichloroethylene	†	30	3.47	3.47
2,4-Dichlorophenol	†	2	7.89	7.89
Diethyl phthalate	†	2	2.43	2.43
2,4-Dimethyl phenol	†	2	5.68	5.68
Dimethyl phthalate	†	2	6.58	6.58
2,4-Dinitrophenol	†	2	7.49	7.49
2,4-Dinitrotoluene	†	2	6.05	6.05
2,6-Dinitrotoluene	†	2	6.33	6.33
Di-n-octyl phthalate	†	2	4.08	4.08
Diphenylamine	†	2	7.81	7.81
Endrin	†	4	4.84	4.84
Ethylbenzene	†	2	6.66	6.66
Fluoranthene	†	2	5.39	5.39
Fluorene	†	2	3.42	3.42
Hexachlorobenzene	†	2	1.06	1.06
Hexachlorobutadiene	†	2	7.49	7.49
Hexachlorocyclopentadiene	†	2	18.83	18.83
Hexachloroethane	†	2	10.47	10.47
Indeno[1,2,3-c,d]pyrene	†	2	4.10	4.10
Isophorone	†	2	1.49	1.49
2-Methyl-4,6-dinitrophenol	†	2	4.20	4.20
2-Methylnaphthalene	†	2	6.07	6.07
Naphthalene	†	2	12.91	12.91
m-Nitroaniline	†	2	2.10	2.10
o-Nitroaniline	†	2	0.67	0.67
p-Nitroaniline	†	2	2.80	2.80
Nitrobenzene	†	2	8.90	8.90
2-Nitrophenol	†	2	9.52	9.52
4-Nitrophenol	†	2	0.81	0.81
N-Nitrosodipropylamine	†	2	3.21	3.21
PCB 1260	†	6	<b>20.00</b>	<b>20.00</b>
Pentachlorophenol	†	2	1.29	1.29
Phenanthrene	†	2	1.84	1.84
Phenol	†	2	3.92	3.92
Pyrene	†	2	5.81	5.81
Toluene	†	32	3.46	3.46
1,2,4-Trichlorobenzene	†	2	12.74	12.74
Trichloroethylene	†	30	3.13	3.13
2,4,5-Trichlorophenol	†	2	5.84	5.84
2,4,6-Trichlorophenol	†	2	5.57	5.57
Xylenes	†	2	6.85	6.85

† No detection limit, or no replicate or duplicate results below detection limit.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.

### Quality Control Samples



Table 22. Intralaboratory MRD Indices for WA

Analyte	RDL	<u>In-house Duplicates</u>			<u>Blind Replicates</u>		
		Number of Dup. Pairs	MRD	MRDadj	Number of Dup. Pairs	MRD	MRDadj
Acetone	10.0 µg/L	3	6.61	2.20	2	0.00	0.00
Alkalinity (as CaCO <sub>3</sub> )	7,700 µg/L	13	0.66	0.56	6	0.86	0.86
Aluminum, dissolved	146 µg/L	1	0.00	0.00	0	—	—
Aluminum	322 µg/L	5	0.35	0.29	0	—	—
Arsenic, dissolved	40.0 µg/L	1	0.00	0.00	0	—	—
Arsenic	42.0 µg/L	10	0.00	0.00	8	0.00	0.00
Barium, dissolved	8.0 µg/L	1	0.00	0.00	0	—	—
Barium	8.3 µg/L	10	1.93	1.04	8	3.57	3.47
Beryllium	1.6 µg/L	2	0.00	0.00	0	—	—
Cadmium	4.7 µg/L	10	0.00	0.00	8	0.00	0.00
Calcium	†	1	0.67	0.67	0	—	—
Carbon tetrachloride	5.0 µg/L	15	0.00	0.00	8	0.00	0.00
Chloride	†	0	—	—	0	—	—
Chloroethene	10.0 µg/L	18	2.13	1.13	17	0.41	0.19
Chloroform	5.0 µg/L	15	0.13	0.13	8	0.00	0.00
Chromium, dissolved	7.0 µg/L	1	0.00	0.00	0	—	—
Chromium	11.0 µg/L	10	0.00	0.00	8	0.00	0.00
Cobalt	11.0 µg/L	1	1.26	1.09	0	—	—
Copper	15.0 µg/L	8	0.42	0.36	6	0.00	0.00
1,4-Dichlorobenzene	5.0 µg/L	2	15.51	13.58	2	0.00	0.00
1,1-Dichloroethane	5.0 µg/L	15	1.88	1.78	8	0.07	0.07
1,1-Dichloroethylene	5.0 µg/L	16	0.11	0.04	11	0.00	0.00
cis-1,2-Dichloroethylene	5.0 µg/L	4	8.36	8.36	9	0.34	0.34
Dichloromethane	5.0 µg/L	13	4.32	1.80	8	0.00	0.00
Iron, dissolved	74.0 µg/L	1	0.00	0.00	0	—	—
Iron	192 µg/L	5	1.21	1.05	0	—	—
Lead, dissolved	47.0 µg/L	1	0.00	0.00	0	—	—
Lead	47.0 µg/L	10	0.00	0.00	9	4.74	1.81
Lithium	2.7 µg/L	7	1.28	0.48	6	<b>23.56</b>	<b>23.45</b>
Magnesium	†	1	0.71	0.71	0	—	—
Manganese	†	1	0.20	0.20	0	—	—
Mercury	1.0 µg/L	11	0.33	0.14	8	0.00	0.00
Nickel	26.0 µg/L	8	0.00	0.00	6	3.95	1.35
Nitrate as nitrogen	†	1	0.39	0.39	0	—	—
Nitrate-nitrite as nitrogen	20.0 µg/L	8	0.74	0.74	6	12.14	9.30
Nitrite as nitrogen	1,700 µg/L	1	0.00	0.00	0	—	—
pH	†	2	1.29	1.29	0	—	—
Potassium	†	1	2.64	2.64	0	—	—
Sodium	†	1	0.70	0.70	0	—	—
Specific conductance	†	2	0.73	0.73	0	—	—
Sulfate	642 µg/L	8	1.26	1.20	6	<b>27.94</b>	<b>27.94</b>
Tetrachloroethylene	5.0 µg/L	18	0.66	0.57	17	0.66	0.49
Thallium	55.0 µg/L	2	0.00	0.00	0	—	—
Total dissolved solids	50,000 µg/L	14	5.86	3.07	6	19.99	15.64
Total organic carbon	1,400 µg/L	10	0.00	0.00	6	0.00	0.00
Total organic halogens	120 µg/L	4	0.00	0.00	6	0.00	0.00
Total phosphates (as P)	101 µg/L	2	0.00	0.00	0	—	—
1,1,1-Trichloroethane	5.0 µg/L	15	0.00	0.00	8	0.00	0.00
1,1,2-Trichloroethane	5.0 µg/L	15	0.00	0.00	8	0.00	0.00
Trichloroethylene	5.0 µg/L	36	11.98	11.98	17	0.94	0.63
Trichlorofluoromethane	5.0 µg/L	14	1.52	1.52	8	0.00	0.00
Xylenes	5.0 µg/L	15	1.44	0.55	8	0.00	0.00
Zinc	58.0 µg/L	8	0.00	0.00	6	0.00	0.00

### Quality Control Samples



- † No detection limit, or no replicate or duplicate results below detection limit.  
 – No replicate or duplicate analyses could be calculated.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.

Table 23. Intralaboratory MRD Indices for GP

Analyte	RDL	<u>In-house Duplicates</u>		MRDadj	<u>Blind Replicates</u>		MRDadj
		Number of Dup. Pairs	MRD		Number of Dup. Pairs	MRD	
Actinium-228	3.22E-08 µCi/mL	10	6.30	2.48	4	14.74	5.94
Americium-241	5.57E-09 µCi/mL	11	4.29	3.94	4	10.42	7.31
Americium-243	2.2E-09 µCi/mL	4	0.00	0.00	3	0.00	0.00
Bismuth-214	1.67E-08 µCi/mL	8	5.65	5.30	5	9.13	8.68
Carbon-14	4.82E-08 µCi/mL	19	6.11	4.25	13	5.12	3.57
Cesium-137	3.9E-09 µCi/mL	10	9.38	5.27	3	2.53	2.53
Cobalt-60	7.45E-09 µCi/mL	9	0.00	0.00	4	0.00	0.00
Curium-243/244	5.19E-09 µCi/mL	10	3.37	3.14	4	16.33	12.19
Curium-245/246	2.93E-09 µCi/mL	11	0.00	0.00	4	1.41	0.44
Europium-155	1.98E-08 µCi/mL	9	0.00	0.00	4	0.00	0.00
Gross alpha	6.14E-09 µCi/mL	28	7.20	7.00	15	4.86	4.86
Iodine-129	1.75E-09 µCi/mL	10	3.65	3.59	5	6.17	6.17
Lead-212	1.14E-08 µCi/mL	9	0.29	0.09	4	0.00	0.00
Lead-214	1.55E-08 µCi/mL	5	10.62	7.54	3	8.09	8.09
Neptunium-237	6.45E-10 µCi/mL	5	0.00	0.00	2	0.00	0.00
Nonvolatile beta	6.91E-09 µCi/mL	28	5.30	5.23	14	9.17	8.90
Plutonium-238	1.75E-09 µCi/mL	11	0.00	0.00	4	0.00	0.00
Potassium-40	8.99E-08 µCi/mL	10	0.00	0.00	4	0.00	0.00
Radium, total alpha-emitting	8.16E-10 µCi/mL	18	8.97	5.43	15	15.36	9.36
Radium-226	5.74E-10 µCi/mL	22	6.77	5.18	17	<b>30.73</b>	<b>24.06</b>
Radium-228	2.46E-09 µCi/mL	22	3.56	3.56	17	6.51	6.44
Strontium-89/90	3.32E-09 µCi/mL	3	1.98	1.98	0	–	–
Strontium-90	1.11E-09 µCi/mL	15	4.14	4.14	17	4.79	3.92
Technetium-99	2.21E-08 µCi/mL	10	10.32	5.01	5	6.79	4.23
Thallium-208	7.07E-09 µCi/mL	8	0.00	0.00	4	0.00	0.00
Thorium-228	2.7E-09 µCi/mL	12	0.00	0.00	4	0.00	0.00
Thorium-230	1.26E-09 µCi/mL	12	0.76	0.24	4	0.00	0.00
Thorium-232	6.08E-10 µCi/mL	11	0.00	0.00	4	0.00	0.00
Tritium	9.13E-07 µCi/mL	25	3.00	2.65	16	5.48	5.41
Uranium-233/234	1.72E-09 µCi/mL	13	4.51	4.51	5	6.08	6.08
Uranium-235	1.52E-09 µCi/mL	13	5.23	5.23	5	10.48	10.48
Uranium-238	1.51E-09 µCi/mL	13	8.33	8.33	5	5.65	5.65

- No replicate or duplicate analyses could be calculated.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.



Table 24. Intralaboratory MRD Indices for SC

Analyte	RDL	<u>In-house Duplicates</u>			<u>Blind Replicates</u>		
		Number of Dup. Pairs	MRD	MRDadj	Number of Dup. Pairs	MRD	MRDadj
Actinium-228	6.77E-08 µCi/mL	1	0.00	0.00	0	—	—
Bismuth-214	†	1	5.67	5.67	0	—	—
Carbon tetrachloride	5.0E+01 µg/L	0	—	—	3	0.00	0.00
Cesium-137	2.02E-08 µCi/mL	1	0.00	0.00	0	—	—
Cobalt-60	1.77E-08 µCi/mL	1	0.00	0.00	0	—	—
Europium-155	4.8E-08 µCi/mL	1	0.00	0.00	0	—	—
Gross alpha	1.72E-08 µCi/mL	11	4.59	2.98	10	0.00	0.00
Lead-212	3.01E-08 µCi/mL	1	0.00	0.00	0	—	—
Lead-214	3.49E-08 µCi/mL	1	<b>24.40</b>	8.34	0	—	—
Nonvolatile beta	1.58E-08 µCi/mL	6	0.00	0.00	6	0.00	0.00
Potassium-40	2.44E-07 µCi/mL	1	0.00	0.00	0	—	—
Thallium-208	4.88E-08 µCi/mL	1	0.00	0.00	0	—	—
Tritium	6.36E-07 µCi/mL	15	5.43	3.95	10	6.26	4.94

† No detection limit, or no replicate or duplicate results below detection limit.

— No replicate or duplicate analyses could be calculated.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.

Table 25. Intralaboratory MRD Indices for TM

Analyte	RDL	<u>In-house Duplicates</u>			<u>Blind Replicates</u>		
		Number of Dup. Pairs	MRD	MRDadj	Number of Dup. Pairs	MRD	MRDadj
Iodine-129	†	1	<b>25.18</b>	<b>25.18</b>	0	—	—
Radium-228	†	1	1.61	1.61	0	—	—
Strontium-90	†	1	13.11	13.11	0	—	—
Technetium-99	†	1	5.06	5.06	0	—	—

† No detection limit, or no replicate or duplicate results below detection limit.

— No replicate or duplicate analyses could be calculated.

Note: An MRD of 0.00 indicates no difference between any of the pairs of results used in calculating the MRD. MRD results greater than or equal to 20 appear in **bold**.

Table 26. Interlaboratory MRD and t-test Results for Analytes with at Least One Pair of Results above the RDL for GE and WA

Analyte	RDL	Unit	MRD	t-test Probability
Acetone	10.0	µg/L	<b>0.00</b>	—
Alkalinity (as CaCO <sub>3</sub> )	7,700	µg/L	11.15	.888
Aluminum, dissolved	146	µg/L	<b>63.12</b>	.423
Aluminum	146	µg/L	2.88	.215
Arsenic, dissolved	40.0	µg/L	<b>0.00</b>	—
Arsenic	42.0	µg/L	<b>0.00</b>	—
Barium, dissolved	8.0	µg/L	<b>36.57</b>	.415
Barium	8.3	µg/L	14.84	.059

### Quality Control Samples



<i>Analyte</i>	<i>RDL</i>	<i>Unit</i>	<i>MRD</i>	<i>t-test Probability</i>
Beryllium	5.0	µg/L	0.17	.333
Cadmium	5.0	µg/L	1.06	.296
Calcium	100	µg/L	11.47	.223
Carbon tetrachloride	5.0	µg/L	<b>0.00</b>	—
Chloroethene	10.0	µg/L	<b>0.00</b>	—
Chloroform	5.0	µg/L	<b>0.00</b>	—
Chromium, dissolved	7.0	µg/L	<b>50.11</b>	.423
Chromium	11.0	µg/L	0.76	.333
Cobalt	11.0	µg/L	5.58	.284
Copper	15.0	µg/L	3.83	.275
1,1-Dichloroethane	5.0	µg/L	<b>0.00</b>	—
1,1-Dichloroethylene	5.0	µg/L	<b>0.00</b>	—
cis-1,2-Dichloroethylene	5.0	µg/L	<b>0.00</b>	—
Dichloromethane	14.5	µg/L	<b>0.00</b>	—
Iron, dissolved	74.0	µg/L	<b>28.97</b>	.393
Iron	192	µg/L	<b>33.35</b>	.330
Lead, dissolved	47.0	µg/L	<b>0.00</b>	—
Lead	47.0	µg/L	1.38	.478
Lithium	10.0	µg/L	<b>20.11</b>	.505
Magnesium	20.0	µg/L	10.78	.126
Mercury	0.7	µg/L	9.19	.335
Nickel	26.0	µg/L	7.79	.201
Nitrate as nitrogen	50.0	µg/L	<b>135.57</b>	.060
Nitrate-nitrite as nitrogen	50.0	µg/L	<b>25.82</b>	.332
Nitrite as nitrogen	1,700	µg/L	<b>0.00</b>	—
Sodium	100	µg/L	19.41	.034
Sulfate	538	µg/L	<b>45.83</b>	.024
Tetrachloroethylene	5.0	µg/L	2.02	.410
Thallium	55.0	µg/L	<b>0.00</b>	—
Total dissolved solids	50,000	µg/L	11.03	.219
Total organic carbon	1,400	µg/L	<b>35.29</b>	.271
Total organic halogens	120	µg/L	<b>0.00</b>	—
Total phosphates (as P)	101	µg/L	<b>0.00</b>	—
1,1,1-Trichloroethane	5.0	µg/L	<b>0.00</b>	—
1,1,2-Trichloroethane	5.0	µg/L	<b>0.00</b>	—
Trichloroethylene	5.0	µg/L	2.26	.371
Trichlorofluoromethane	5.0	µg/L	<b>0.00</b>	—
Xylenes	5.0	µg/L	<b>0.00</b>	—
Zinc	58.0	µg/L	10.98	.263

Could not calculate because there are no differences between pairs.

Note: Values less than .050 indicate a probability of less than 1 in 20 that the results for that analyte are the same from both laboratories. MRD results greater than or equal to 20 appear in **bold**. Results less than or equal to 0.05 appear in **bold italic**.

*Table 27. Interlaboratory MRD and t-test Results for Analytes with at Least One Pair of Results above the RDL for GE and ML*

<i>Analyte</i>	<i>RDL</i>	<i>Unit</i>	<i>MRD</i>	<i>t-test Probability</i>
Carbon tetrachloride	50.0	µg/L	<b>0.00</b>	—
1,1-Dichloroethane	50.0	µg/L	<b>0.00</b>	—
1,1-Dichloroethylene	50.0	µg/L	<b>0.00</b>	—
Tetrachloroethylene	50.0	µg/L	<b>41.36</b>	.336
1,1,1-Trichloroethane	50.0	µg/L	<b>0.00</b>	—

### *Quality Control Samples*



<i>Analyte</i>	<i>RDL</i>	<i>Unit</i>	<i>MRD</i>	<i>t-test Probability</i>
1,1,2-Trichloroethane	50.0	µg/L	<b>0.00</b>	–
Trichloroethylene	1.0	µg/L	<b>40.83</b>	.261

– Could not calculate because there are no differences between pairs.

Note: Values less than .050 indicate a probability of less than 1 in 20 that the results for that analyte are the same from both laboratories. MRD results greater than or equal to 20 appear in **bold**. Results less than or equal to 0.05 appear in **bold italic**.

*Table 28. Interlaboratory MRD and t-test Results for Analytes with at Least One Pair of Results above the RDL for WA and ML*

<i>Analyte</i>	<i>RDL</i>	<i>Unit</i>	<i>MRD</i>	<i>t-test Probability</i>
Chloroethene	10.0	µg/L	3.61	.391
Chloroform	5.0	µg/L	<b>0.00</b>	–
1,1-Dichloroethane	5.0	µg/L	<b>0.00</b>	–
1,1-Dichloroethylene	5.0	µg/L	<b>0.00</b>	–
cis-1,2-Dichloroethylene	5.0	µg/L	3.86	.423
Dichloromethane	10.0	µg/L	<b>0.00</b>	–
Tetrachloroethylene	5.0	µg/L	0.92	.391
1,1,1-Trichloroethane	5.0	µg/L	<b>0.00</b>	–
Trichloroethylene	5.0	µg/L	2.40	.391
Xylenes	5.0	µg/L	<b>0.00</b>	–

– Could not calculate because there are no differences between pairs.

Note: Values less than .050 indicate a probability of less than 1 in 20 that the results for that analyte are the same from both laboratories. MRD results greater than or equal to 20 appear in **bold**. Results less than or equal to 0.05 appear in **bold italic**.

*Table 29. Interlaboratory MRD and t-test Results for Analytes with at Least One Pair of Results above the RDL for GP and TM*

<i>Analyte</i>	<i>RDL</i>	<i>Unit</i>	<i>MRD</i>	<i>t-test Probability</i>
Iodine-129	1.75E-09	µCi/mL	<b>31.96</b>	–
Radium-228	2.46E-09	µCi/mL	<b>162.68</b>	–
Strontium-90	1.11E-09	µCi/mL	1.06	–
Technetium-99	2.21E-08	µCi/mL	<b>199.03</b>	–

† No detection limit, or no replicate or duplicate results below detection limit.

– Could not calculate because there are no differences between pairs.

Note: Values less than .050 indicate a probability of less than 1 in 20 that the results for that analyte are the same from both laboratories. MRD results greater than or equal to 20 appear in **bold**.

## Quality Control Samples



Table 30. Interlaboratory MRD and t-test Results for Analytes with at Least One Pair of Results above the RDL for GP and ML

Analyte	RDL	Unit	MRD	t-test Probability
Actinium-228	3.25E-08	μCi/mL	<b>33.87</b>	–
Bismuth-214	1.67E-08	μCi/mL	4.18	–
Gross alpha	1.65E-08	μCi/mL	5.97	.291
Nonvolatile beta	1.49E-08	μCi/mL	7.83	.251
Tritium	9.11E-07	μCi/mL	15.67	.289

– Could not calculate because there are no differences between pairs.

Note: Values less than .050 indicate a probability of less than 1 in 20 that the results for that analyte are the same from both laboratories. MRD results greater than or equal to 20 appear in **bold**.

Table 31. GE Samples and Blind Replicates Yielding Results Where One Is More Than Twice Another

Analyte	Wells
Iron	FSB 78
Mercury	HSB124AR
Nitrate-nitrite as nitrogen	HSB133C
Specific conductance	HSB133C

Table 32. WA Samples and Blind Replicates Yielding Results Where One Is More Than Twice Another

Analyte	Wells
Lithium	BGO 14AR
Sulfate	BGO 14AR
Total dissolved solids	BGO 14AR

Table 33. WA Samples and Laboratory Duplicates Yielding Results Where One Is More Than Twice Another

Analyte	Wells
Trichloroethylene	SSM 11B2, SSM 16B2

Table 34. GP Samples and Blind Replicates Yielding Results Where One Is More Than Twice Another

Analyte	Wells
Radium-226	BGO 15D, BGO 37C, KCB 3
Radium-228	FEX 10

### Quality Control Samples



*Table 35. GP Samples and Laboratory Duplicates Yielding Results Where One Is More Than Twice Another*

<b>Analyte</b>	<b>Wells</b>
Gross alpha	HSB115D

*Table 36. Analytes with One Laboratorys Result Greater Than Twice the Result from the Other Laboratory between GE and WA*

<b>Analyte</b>	<b>Wells</b>
Aluminum, dissolved	BGO 28D
Barium, dissolved	BGO 28D
Barium	BGO 28D
Chromium, dissolved	BGO 28D
Iron, dissolved	BGO 28D
Iron	BGO 28D, FSB 78
Mercury	HSB124AR
Nitrate as nitrogen	FBI 10D, FEX 10, FSB 78
Nitrate-nitrite as nitrogen	BGO 12AX, BSW 1C4, HSB 65A, HSB133C
Sulfate	BGO 14AR, FBI 5D, FBI 10D, FEX 10, FSB 78
Total organic carbon	BGO 6A, BSW 1C4
Zinc	BGO 28D

*Table 37. Analytes with One Laboratorys Result Greater Than Twice the Result from the Other Laboratory between GE and ML*

<b>Analyte</b>	<b>Wells</b>
Tetrachloroethylene	RWM 7
Trichloroethylene	RWM 7

*Table 38. Analytes with One Laboratorys Result Greater Than Twice the Result from the Other Laboratory between GP and TM*

<b>Analyte</b>	<b>Wells</b>
Radium-228	FBI 5D
Technetium-99	FBI 5D



Table 39. Analytes with One Laboratorys Result Greater Than Twice the Result from the Other Laboratory between GP and ML

Analyte	Wells
Gross alpha	HSB 86C
Nonvolatile beta	HSB 86C
Tritium	BSW 1C4

Table 40. ERA Analyses Not Requested to be Performed by Labs

GE	WA	ML	MS
<b>Acids</b> 4-Chloro-3-methylphenol 3-Nitrophenol	<b>Acids</b> 4-Chloro-3-methylphenol 3-Nitrophenol	<b>Acids</b> Benzoic acid 4-Chloro-3-methylphenol 2,6-Dichlorophenol 3-Nitrophenol	<b>Acids</b> Benzoic acid 4-Chloro-3-methylphenol 2,6-Dichlorophenol 3-Nitrophenol
<b>Base/Neutrals</b> 1-Chloronaphthalene 1-Methylnaphthalene N-Nitroso-di-n-propylamine	<b>Base/Neutrals</b> 1-Chloronaphthalene 1-Methylnaphthalene N-Nitroso-di-n-propylamine	<b>Base/Neutrals</b> Aniline Benzidine Benzyl alcohol Carbazole 1-Chloronaphthalene 1-Methylnaphthalene N-Nitrosodiethylamine N-Nitrosodimethylamine N-Nitrosodiphenylamine N-Nitroso-di-n-propylamine Pyridine	<b>Base/Neutrals</b> Aniline Benzidine Benzyl alcohol Carbazole 1-Chloronaphthalene 1-Methylnaphthalene N-Nitrosodimethylamine N-Nitroso-di-n-propylamine Pyridine
<b>Nutrients</b> Total phosphorus (as P)	<b>Nutrients</b> Total phosphorus (as P)		
<b>Total Petroleum Hydrocarbons</b>			
		<b>Cations</b>	<b>Cations</b>
		<b>Cyanide and Phenol</b>	<b>Cyanide and Phenol</b>
		<b>Grease and Oil</b>	<b>Grease and Oil</b>
		<b>Inorganics</b>	<b>Inorganics</b>
		<b>Nutrients</b>	<b>Nutrients</b>
		<b>Total Petroleum Hydrocarbons</b>	<b>Total Petroleum Hydrocarbons</b>
		<b>Toxaphene</b>	<b>Toxaphene</b>
		<b>Trace Metals</b> Boron Molybdenum Strontium	<b>Trace Metals</b> Boron Molybdenum Strontium
		<b>Turbidity</b>	<b>Turbidity</b>
		<b>Volatiles</b> Acetonitrile Acrolein Acrylonitrile 2-Chloroethyl vinyl ether 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	<b>Volatiles</b> Acetonitrile Acrolein Acrylonitrile 2-Chloroethyl vinyl ether 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)

### Quality Control Samples



GE	WA	ML	MS
		Dibromomethane	Dibromomethane
		1,2-Dichlorobenzene	1,2-Dichlorobenzene
		1,3-Dichlorobenzene	1,3-Dichlorobenzene
		1,4-Dichlorobenzene	1,4-Dichlorobenzene
		Dichlorodifluoromethane	Dichlorodifluoromethane
		1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane
		Trichlorofluoromethane	Trichlorofluoromethane
		1,2,3-Trichloropropane	1,2,3-Trichloropropane
		m/p-Xylene	
		o-Xylene	

Table 41. Quality Control Standards for Selected Analyses for GE

Analyte	Certified Value	Performance Acceptance Limits	GE Result	Functional Guideline Code
<b>Acids (Lot 610)</b>				
Benzoic acid (µg/L)	<10.0	—	<20.0*	
2-Chlorophenol (µg/L)	131	58.6–143	99.1	
m/p-Cresol (3/4-Methylphenol) (µg/L)	<10.0	—	❖	
o-Cresol (2-Methylphenol) (µg/L)	20.5	D.L.–23.4	13.6	
2,4-Dichlorophenol (µg/L)	112	56.2–119	88.6	
2,6-Dichlorophenol (µg/L)	<10.0	—	<10.0	
2,4-Dimethyl phenol (µg/L)	92.2	36.0–104	73.6	
2,4-Dinitrophenol (µg/L)	105	19.7–117	56.1	
2-Methyl-4,6-dinitrophenol (µg/L)	<10.0	—	❖	
2-Nitrophenol (µg/L)	21.3	10.6–23.7	15.3	
4-Nitrophenol (µg/L)	78.4	D.L.–88.1	16.4	
Pentachlorophenol (µg/L)	128	58.0–153	107	
Phenol (µg/L)	41.2	D.L.–46.4	10.9	
2,4,5-Trichlorophenol (µg/L)	147	75.6–165	114	
2,4,6-Trichlorophenol (µg/L)	152	74.6–176	111	
<b>Base/Neutrals (Lot 610)</b>				
Acenaphthene (µg/L)	<10.0	—	<1.0	
Acenaphthylene (µg/L)	39.8	20.9–44.0	35.3	
Aniline (µg/L)	<10.0	—	<10.0	
Anthracene (µg/L)	91.1	47.2–104	83.8	
Benzidine (µg/L)	<10.0	—	<50.0*	
Benzo[a]anthracene (µg/L)	42.7	28.3–46.0	38.2	
Benzo[b]fluoranthene (µg/L)	57.6	27.2–70.1	48.3	
Benzo[k]fluoranthene (µg/L)	<10.0	—	<1.0	
Benzo[g,h,i]perylene (µg/L)	22.8	D.L.–28.8	18.1	
Benzo[a]pyrene (µg/L)	<10.0	—	<1.0	
Benzyl alcohol (µg/L)	<10.0	—	<10.0	
Bis(2-chloroethoxy) methane (µg/L)	47.2	24.9–50.8	34.5	
Bis(2-chloroethyl) ether (µg/L)	<10.0	—	<10.0	
Bis(2-ethylhexyl) phthalate (µg/L)	121	45.8–151	98.6	
4-Bromophenyl phenyl ether (µg/L)	<10.0	—	<10.0	
Butylbenzyl phthalate (µg/L)	<10.0	—	<10.0	
Carbazole (µg/L)	<10.0	—	<10.0	
4-Chloroaniline (µg/L)	<10.0	—	<10.0	
2-Chloronaphthalene (µg/L)	124	48.0–139	105	
4-Chlorophenyl phenyl ether (µg/L)	95.2	50.4–107	75.4	
Chrysene (µg/L)	60.3	33.5–69.7	61.0	
Dibenz(a,h)anthracene	29.8	13.1–36.5	24.5	
Dibenzofuran (µg/L)	148	45.4–179	116	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>GE Result</b>	<b>Functional Guideline Code</b>
Di-n-butyl phthalate (µg/L)	37.6	20.7–47.8	27.0	
1,2-Dichlorobenzene (µg/L)	37.0	D.L.–40.8	26.8	
1,3-Dichlorobenzene (µg/L)	<10.0	—	<10.0	
1,4-Dichlorobenzene (µg/L)	98.0	D.L.–107	72.8	
3,3'-Dichlorobenzidine (µg/L)	<10.0	—	<10.0	
Diethyl phthalate (µg/L)	80.9	22.0–103	38.3	
Dimethyl phthalate (µg/L)	58.6	15.3–74.6	15.0◆	
2,4-Dinitrotoluene (µg/L)	57.0	29.9–66.2	39.4	
2,6-Dinitrotoluene (µg/L)	<10.0	—	<10.0	
Di-n-octyl phthalate (µg/L)	<10.0	—	<10.0	
Fluoranthene (µg/L)	<10.0	—	<1.0	
Fluorene (µg/L)	42.2	24.1–48.7	35.3	
Hexachlorobenzene (µg/L)	<10.0	—	<10.0	
Hexachlorobutadiene (µg/L)	166	57.6–170	111	
Hexachlorocyclopentadiene (µg/L)	<10.0	—	<10.0	
Hexachloroethane (µg/L)	<10.0	—	<10.0	
Indeno(1,2,3-c,d)pyrene (µg/L)	37.8	14.2–43.3	28.2	
Isophorone (µg/L)	139	70.0–162	118	
2-Methylnaphthalene (µg/L)	<10.0	—	<1.0	
Naphthalene (µg/L)	140	58.6–158	120	
2-Nitroaniline (µg/L)	<10.0	—	<10.0	
3-Nitroaniline (µg/L)	<10.0	—	<10.0	
4-Nitroaniline (µg/L)	<10.0	—	<10.0	
Nitrobenzene (µg/L)	56.8	28.6–64.8	44.0	
N-Nitrosodiethylamine (µg/L)	<10.0	—	<10.0	
N-Nitrosodimethylamine (µg/L)	<10.0	—	<10.0	
N-Nitrosodiphenylamine (µg/L)	<10.0	—	❖	
2,2-Oxybis (1-Chloropropane) (µg/L)	33.4	14.0–35.0	14.4	
Phenanthrene (µg/L)	53.5	32.6–60.7	48.8	
Pyrene (µg/L)	35.4	18.2–45.2	32.4	
Pyridine (µg/L)	<10.0	—	<10.0	
1,2,4-Trichlorobenzene (µg/L)	114	50.4–118	89.7	
<b>Cations (Lot 443)</b>				
Calcium (µg/L)	101,000	90,900–111,000	97,200	
Magnesium (µg/L)	65,200	58,000–72,400	64,500	
Potassium (µg/L)	67,100	61,100–73,100	62,300	
Sodium (µg/L)	114,000	100,000–128,000	121,000	
<b>Cyanide and Phenol (Lot 99110)</b>				
Cyanide, total (µg/L)	592	432–752	750	
Phenols (µg/L)	341	259–423	353	
<b>Grease and Oil (Lot 99114)</b>				
Grease and oil (gravimetric) (mg/bottle)	16.3	9.78–20.4	10.3	
<b>Inorganics (Lot 3448)</b>				
Alkalinity (as CaCO <sub>3</sub> ) (µg/L)	47,900	43,300–53,200	47,000	
Chloride (µg/L)	55,700	49,500–62,800	49,000◆	
Fluoride (µg/L)	4,700	3,950–5,360	5,160	
Nitrate as nitrogen (µg/L)	8,250	7,000–9,410	8,370	
pH (pH units)	8.94	8.74–9.14	8.92	
Potassium (µg/L)	33,300	28,600–38,800	31,200	
Sodium (µg/L)	70,300	61,400–80,100	72,40	
Specific conductance (µS/cm)	447	396–505	467	
Sulfate (µg/L)	27,900	23,900–31,500	28,300	
Total dissolved solids (µg/L)	299,00	245,000–335,000	312,000	

### Quality Control Samples



<i>Analyte</i>	<i>Certified Value</i>	<i>Performance Acceptance Limits</i>	<i>GE Result</i>	<i>Functional Guideline Code</i>
<b>Nutrients (Lot 16120)</b>				
Ammonia nitrogen (µg/L)	10,000	8,400–11,600	10,300	
Nitrate (as nitrogen) (µg/L)	3,580	3,190–3,970	3,400	
Total kjeldahl nitrogen (µg/L)	15,000	12,300–17,700	❖	
Total phosphates (as P) (µg/L)	2,870	2,440–3,300	6,400◆	
<b>PCBs in Water (Lot 607)</b>				
PCB 1016 (µg/L)	<1.0	—	<0.1	
PCB 1221 (µg/L)	<1.0	—	<0.1	
PCB 1232 (µg/L)	1.42	0.83–1.70	1.40	
PCB 1242 (µg/L)	<1.0	—	<0.1	
PCB 1248 (µg/L)	<1.0	—	<0.1	
PCB 1254 (µg/L)	<1.0	—	<0.1	
PCB 1260 (µg/L)	<1.0	—	<0.1	
<b>Pesticides (Lot 3247)</b>				
Aldrin (µg/L)	1.48	0.63–1.86	1.27	
Dieldrin (µg/L)	2.80	1.96–3.50	2.59	
Endrin (µg/L)	2.69	1.88–3.50	2.51	
Heptachlor (µg/L)	0.81	0.44–1.17	0.71	
Heptachlor epoxide (µg/L)	3.81	2.10–5.52	3.46	
Lindane (µg/L)	1.92	1.06–2.78	1.58	
Methoxychlor (µg/L)	28.4	15.6–41.2	23.6	
<b>Toxaphene (Lot 3245)</b>				
Toxaphene (µg/L)	15.0	8.25–21.8	12.1	
<b>Trace Metals (Lot 99106)</b>				
Aluminum (µg/L)	478	392–564	503	
Antimony (µg/L)	198	148–234	207	
Arsenic (µg/L)	347	260–409	346	
Barium (µg/L)	80.4	65.9–94.9	81.2	
Beryllium (µg/L)	252	207–297	246	
Boron (µg/L)	218	179–257	220	
Cadmium (µg/L)	233	191–275	228	
Chromium (µg/L)	966	792–1,140	974	
Cobalt (µg/L)	851	698–1,000	860	
Copper (µg/L)	818	671–965	808	
Iron (µg/L)	3,240	2,660–3,820	3,260	
Lead (µg/L)	625	513–738	634	
Manganese (µg/L)	2,820	2,310–3,330	2,810	
Mercury (µg/L)	26.4	19.8–33.0	31.3	
Molybdenum (µg/L)	335	275–395	336	
Nickel (µg/L)	208	171–245	209	
Selenium (µg/L)	1,060	795–1,250	1,040	
Silver (µg/L)	488	400–576	481	
Strontium (µg/L)	267	219–315	268	
Thallium (µg/L)	861	646–1,020	866	
Vanadium (µg/L)	652	535–769	654	
Zinc (µg/L)	1,670	1,370–1,970	1,560	
<b>Turbidity (Lot 3436)</b>				
Turbidity (NTU)	1.40	1.19–1.64	1.45	
<b>Volatiles (Lot 610)</b>				
Acetone (µg/L)	<5.0	—	<5.0	
Acetonitrile (µg/L)	<5.0	—	<25.0*	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>GE Result</b>	<b>Functional Guideline Code</b>
Acrolein (µg/L)	<5.0	—	<10.0*	
Acrylonitrile (µg/L)	<5.0	—	❖	
Benzene (µg/L)	29.3	23.8–35.1	30.2	
Bromodichloromethane (µg/L)	59.1	47.8–71.0	60.3	
Bromoform (µg/L)	55.9	43.2–69.8	62.4	
Bromomethane (Methyl bromide) (µg/L)	<5.0	—	<1.0	
Carbon disulfide (µg/L)	<5.0	—	<5.0	
Carbon tetrachloride (µg/L)	61.1	45.8–78.1	58.3	
Chlorobenzene (µg/L)	35.1	28.3–41.3	33.6	
Chloroethane (µg/L)	<5.0	—	<1.0	
Chloroethene (Vinyl chloride) (µg/L)	<5.0	—	<1.0	
2-Chloroethyl vinyl ether (µg/L)	<5.0	—	<5.0	
Chloroform (µg/L)	48.4	38.4–57.3	49.8	
Dibromochloromethane (µg/L)	46.0	35.5–56.0	47.4	
Chloromethane (Methyl chloride) (µg/L)	<5.0	—	<1.0	
1,2-Dibromo-3-chloropropane (DBCP) (µg/L)	<5.0	—	<1.0	
1,2-Dibromoethane (EDB) (µg/L)	<5.0	—	<1.0	
Dibromomethane (Methylene bromide) (µg/L)	<5.0	—	<1.0	
1,2-Dichlorobenzene (µg/L)	24.8	19.7–29.3	22.7	
1,3-Dichlorobenzene (µg/L)	38.4	30.5–44.5	34.2	
1,4-Dichlorobenzene (µg/L)	46.4	36.6–55.2	41.4	
Dichlorodifluoromethane (µg/L)	<5.0	—	<1.0	
1,1-Dichloroethane (µg/L)	<5.0	—	<1.0	
1,2-Dichloroethane (µg/L)	44.7	35.7–54.8	44.5	
1,1-Dichloroethylene (µg/L)	12.4	7.81–18.8	14.8	
cis-1,2-Dichloroethylene (µg/L)	<5.0	—	<1.0	
trans-1,2-Dichloroethylene (µg/L)	<5.0	—	<1.0	
Dichloromethane (Methylene chloride) (µg/L)	29.8	22.6–37.7	33.2	
1,2-Dichloropropane (µg/L)	<5.0	—	<1.0	
cis-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
trans-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
Ethylbenzene (µg/L)	15.0	11.8–17.9	13.4	
2-Hexanone (µg/L)	<5.0	—	<5.0	
Methyl ethyl ketone (MEK) (µg/L)	<5.0	—	<5.0	
Methyl isobutyl ketone (MIBK) (µg/L)	83.1	52.5–111	78.9	
Styrene (µg/L)	<5.0	—	<1.0	
1,1,1,2-Tetrachloroethane (µg/L)	<5.0	—	<1.0	
1,1,2,2-Tetrachloroethane	<5.0	—	<1.0	
Tetrachloroethylene (µg/L)	36.2	27.7–42.8	31.8	
Toluene (µg/L)	19.3	15.4–22.7	17.7	
1,1,1-Trichloroethane (µg/L)	34.7	26.4–41.9	34.7	
1,1,2-Trichloroethane (µg/L)	129	101–154	❖	
Trichloroethylene (µg/L)	35.6	27.0–42.3	33.7	
Trichlorofluoromethane (µg/L)	<5.0	—	<1.0	
1,2,3-Trichloropropane (µg/L)	<5.0	—	<1.0	
Vinyl acetate (µg/L)	<5.0	—	<5.0	
m/p-Xylene (µg/L)	23.1	16.1–28.6	21.2	
o-Xylene (µg/L)	37.2	26.0–46.1	34.9	
Xylenes, total (µg/L)	60.3	42.1–74.8	56.1	

— Certified values and/or performance acceptance limits were not provided.

\* Insufficient information to determine if result is in or out of range.

❖ Value not reported by laboratory.

D.L. Detection limit

◆ Result is out of range.

## Quality Control Samples



Table 42. Quality Control Standards for Selected Analyses for WA

Analyte	Certified Value	Performance Acceptance Limits	WA Result	Functional Guideline Code
<b>Acids (Lot 610)</b>				
Benzoic acid (µg/L)	<10.0	—	<25.0*	
2-Chlorophenol (µg/L)	131	58.6–143	83.7	
m/p-Cresol (3/4-Methylphenol) (µg/L)	<10.0	—	<10.0	
o-Cresol (2-Methylphenol) (µg/L)	20.5	D.L.–23.4	12.8	
2,4-Dichlorophenol (µg/L)	112	56.2–119	76.0	
2,6-Dichlorophenol (µg/L)	<10.0	—	<10.0	
2,4-Dimethyl phenol (µg/L)	92.2	36.0–104	60.4	
2,4-Dinitrophenol (µg/L)	105	19.7–117	35.4	
2-Methyl-4,6-dinitrophenol (µg/L)	<10.0	—	❖	
2-Nitrophenol (µg/L)	21.3	10.6–23.7	13.9	
4-Nitrophenol (µg/L)	78.4	D.L.–88.1	58.9	
Pentachlorophenol (µg/L)	128	58.0–153	84.3	
Phenol (µg/L)	41.2	D.L.–46.4	26.8	
2,4,5-Trichlorophenol (µg/L)	147	75.6–165	111	
2,4,6-Trichlorophenol (µg/L)	152	74.6–176	109	
<b>Base/Neutrals (Lot 610)</b>				
Acenaphthene (µg/L)	<10.0	—	<10.0	
Acenaphthylene (µg/L)	39.8	20.9–44.0	19.3◆	
Aniline (µg/L)	<10.0	—	<10.0	
Anthracene (µg/L)	91.1	47.2–104	64.2	
Benzidine (µg/L)	<10.0	—	<100*	
Benzo[a]anthracene (µg/L)	42.7	28.3–46.0	32.3	
Benzo[b]fluoranthene (µg/L)	57.6	27.2–70.1	41.9	
Benzo[k]fluoranthene (µg/L)	<10.0	—	<10.0	
Benzo[g,h,i]perylene (µg/L)	22.8	D.L.–28.8	16.0	
Benzo[a]pyrene (µg/L)	<10.0	—	<10.0	
Benzyl alcohol (µg/L)	<10.0	—	<10.0	
Bis(2-chloroethoxy) methane (µg/L)	47.2	24.9–50.8	29.9	
Bis(2-chloroethyl) ether (µg/L)	<10.0	—	<10.0	
Bis(2-ethylhexyl) phthalate (µg/L)	121	45.8–151	86.8	
4-Bromophenyl phenyl ether (µg/L)	<10.0	—	<10.0	
Butylbenzyl phthalate (µg/L)	<10.0	—	<10.0	
Carbazole (µg/L)	<10.0	—	<10.0	
4-Chloroaniline (µg/L)	<10.0	—	<10.0	
2-Chloronaphthalene (µg/L)	124	48.0–139	48.2	
4-Chlorophenyl phenyl ether (µg/L)	95.2	50.4–107	60.6	
Chrysene (µg/L)	60.3	33.5–69.7	❖	
Dibenz(a,h)anthracene	29.8	13.1–36.5	22.8	
Dibenzofuran (µg/L)	148	45.4–179	83.7	
Di-n-butyl phthalate (µg/L)	37.6	20.7–47.8	26.1	
1,2-Dichlorobenzene (µg/L)	37.0	D.L.–40.8	3.90	J
1,3-Dichlorobenzene (µg/L)	<10.0	—	<10.0	
1,4-Dichlorobenzene (µg/L)	98.0	D.L.–107	8.75	J
3,3'-Dichlorobenzidine (µg/L)	<10.0	—	<10.0	
Diethyl phthalate (µg/L)	80.9	22.0–103	59.9	
Dimethyl phthalate (µg/L)	58.6	15.3–74.6	44.0	
2,4-Dinitrotoluene (µg/L)	57.0	29.9–66.2	42.2	
2,6-Dinitrotoluene (µg/L)	<10.0	—	<10.0	
Di-n-octyl phthalate (µg/L)	<10.0	—	<10.0	
Fluoranthene (µg/L)	<10.0	—	<10.0	
Fluorene (µg/L)	42.2	24.1–48.7	26.4	
Hexachlorobenzene (µg/L)	<10.0	—	<10.0	
Hexachlorobutadiene (µg/L)	166	57.6–170	8.0◆	J
Hexachlorocyclopentadiene (µg/L)	<10.0	—	<10.0	
Hexachloroethane (µg/L)	<10.0	—	<10.0	
Indeno(1,2,3-c,d)pyrene (µg/L)	37.8	14.2–43.3	26.5	

## Quality Control Samples



<i>Analyte</i>	<i>Certified Value</i>	<i>Performance Acceptance Limits</i>	<i>WA Result</i>	<i>Functional Guideline Code</i>
Isophorone (µg/L)	139	70.0–162	101	
2-Methylnaphthalene (µg/L)	<10.0	—	<10.0	
Naphthalene (µg/L)	140	58.6–158	26.0◆	
2-Nitroaniline (µg/L)	<10.0	—	<25.0*	
3-Nitroaniline (µg/L)	<10.0	—	<25.0*	
4-Nitroaniline (µg/L)	<10.0	—	<25.0*	
Nitrobenzene (µg/L)	56.8	28.6–64.8	32.1	
N-Nitrosodiethylamine (µg/L)	<10.0	—	<10.0	
N-Nitrosodimethylamine (µg/L)	<10.0	—	<10.0	
N-Nitrosodiphenylamine (µg/L)	<10.0	—	❖	
2,2-Oxybis (1-Chloropropane) (µg/L)	33.4	14.0–35.0	15.8	
Phenanthrene (µg/L)	53.5	32.6–60.7	38.2	
Pyrene (µg/L)	35.4	18.2–45.2	27.2	
Pyridine (µg/L)	<10.0	—	<10.0	
1,2,4-Trichlorobenzene (µg/L)	114	50.4–118	10.1◆	
<b>Cations (Lot 443)</b>				
Calcium (µg/L)	101,000	90,900–111,000	101,000	
Magnesium (µg/L)	65,200	58,000–72,400	67,600	
Potassium (µg/L)	67,100	61,100–73,100	69,800	
Sodium (µg/L)	114,000	100,000–128,000	112,000	
<b>Cyanide and Phenol (Lot 99110)</b>				
Cyanide, total (µg/L)	592	432–752	567	
Phenols (µg/L)	341	259–423	327	
<b>Grease and Oil (Lot 99114)</b>				
Grease and oil (gravimetric) (mg/bottle)	16.3	9.78–20.4	12.3	
<b>Inorganics (Lot 3448)</b>				
Alkalinity (as CaCO <sub>3</sub> ) (µg/L)	47,900	43,300–53,200	51,000	
Chloride (µg/L)	55,700	49,500–62,800	59,100	
Fluoride (µg/L)	4,700	3,950–5,360	5,520◆	
Nitrate as nitrogen (µg/L)	8,250	7,000–9,410	8,540	
pH (pH units)	8.94	8.74–9.14	8.99	
Potassium (µg/L)	33,300	28,600–38,800	33,800	
Sodium (µg/L)	70,300	61,400–80,100	69,000	
Specific conductance (µS/cm)	447	396–505	422	
Sulfate (µg/L)	27,900	23,900–31,500	27,500	
Total dissolved solids (µg/L)	299,00	245,000–335,000	291,000	
<b>Nutrients (Lot 16120)</b>				
Ammonia nitrogen (µg/L)	10,000	8,400–11,600	12,100◆	
Nitrate (as nitrogen) (µg/L)	3,580	3,190–3,970	3,680	
Total kjeldahl nitrogen (µg/L)	15,000	12,300–17,700	❖	
Total phosphates (as P) (µg/L)	2,870	2,440–3,300	337◆	
<b>PCBs in Water (Lot 607)</b>				
PCB 1016 (µg/L)	<1.0	—	<1.0	
PCB 1221 (µg/L)	<1.0	—	<2.0*	
PCB 1232 (µg/L)	1.42	0.83–1.70	1.03	
PCB 1242 (µg/L)	<1.0	—	<1.0	
PCB 1248 (µg/L)	<1.0	—	<1.0	
PCB 1254 (µg/L)	<1.0	—	<1.0	
PCB 1260 (µg/L)	<1.0	—	<1.0	
<b>Pesticides (Lot 3247)</b>				
Aldrin (µg/L)	1.48	0.63–1.86	1.08	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>WA Result</b>	<b>Functional Guideline Code</b>
Dieldrin (µg/L)	2.80	1.96–3.50	2.05	
Endrin (µg/L)	2.69	1.88–3.50	2.38	
Heptachlor (µg/L)	0.81	0.44–1.17	0.59	
Heptachlor epoxide (µg/L)	3.81	2.10–5.52	2.81	
Lindane (µg/L)	1.92	1.06–2.78	1.34	
Methoxychlor (µg/L)	28.4	15.6–41.2	20.5	
<b>Total Petroleum Hydrocarbons (Lot 8926)</b>				
Total petroleum hydrocarbons, infrared (mg/L)	166	99.6–222	187	J
<b>Toxaphene (Lot 3245)</b>				
Toxaphene (µg/L)	15.0	8.25–21.8	<5.0◆	
<b>Trace Metals (Lot 99106)</b>				
Aluminum (µg/L)	478	392–564	526	
Antimony (µg/L)	198	148–234	206	
Arsenic (µg/L)	347	260–409	358	
Barium (µg/L)	80.4	65.9–94.9	80.0	
Beryllium (µg/L)	252	207–297	260	
Boron (µg/L)	218	179–257	232	
Cadmium (µg/L)	233	191–275	240	
Chromium (µg/L)	966	792–1,140	997	
Cobalt (µg/L)	851	698–1,000	911	
Copper (µg/L)	818	671–965	823	
Iron (µg/L)	3,240	2,660–3,820	3,360	
Lead (µg/L)	625	513–738	652	
Manganese (µg/L)	2,820	2,310–3,330	2,970	
Mercury (µg/L)	26.4	19.8–33.0	26.2	
Molybdenum (µg/L)	335	275–395	342	
Nickel (µg/L)	208	171–245	219	
Selenium (µg/L)	1,060	795–1,250	1,130	
Silver (µg/L)	488	400–576	505	
Strontium (µg/L)	267	219–315	271	
Thallium (µg/L)	861	646–1,020	908	
Vanadium (µg/L)	652	535–769	678	
Zinc (µg/L)	1,670	1,370–1,970	1,750	
<b>Turbidity (Lot 3436)</b>				
Turbidity (NTU)	1.40	1.19–1.64	1.47	
<b>Volatiles (Lot 610)</b>				
Acetone (µg/L)	<5.0	—	<10.0*	
Acetonitrile (µg/L)	<5.0	—	<20.0*	
Acrolein (µg/L)	<5.0	—	<20.0*	
Acrylonitrile (µg/L)	<5.0	—	❖	
Benzene (µg/L)	29.3	23.8–35.1	24.6	
Bromodichloromethane (µg/L)	59.1	47.8–71.0	49.7	
Bromoform (µg/L)	55.9	43.2–69.8	52.6	
Bromomethane (Methyl bromide) (µg/L)	<5.0	—	<10.0*	
Carbon disulfide (µg/L)	<5.0	—	<5.0	
Carbon tetrachloride (µg/L)	61.1	45.8–78.1	49.4	
Chlorobenzene (µg/L)	35.1	28.3–41.3	30.1	
Chloroethane (µg/L)	<5.0	—	<10.0*	
Chloroethene (Vinyl chloride) (µg/L)	<5.0	—	<10.0*	
2-Chloroethyl vinyl ether (µg/L)	<5.0	—	<10.0*	
Chloroform (µg/L)	48.4	38.4–57.3	41.2	
Chloromethane (Methyl chloride) (µg/L)	<5.0	—	<10.0*	
Dibromochloromethane (µg/L)	46.0	35.5–56.0	39.0	
1,2-Dibromo-3-chloropropane (DBCP) (µg/L)	<5.0	—	<5.0	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>WA Result</b>	<b>Functional Guideline Code</b>
1,2-Dibromoethane (EDB) (µg/L)	<5.0	—	<5.0	
Dibromomethane (Methylene bromide) (µg/L)	<5.0	—	<5.0	
1,2-Dichlorobenzene (µg/L)	24.8	19.7–29.3	19.9	
1,3-Dichlorobenzene (µg/L)	38.4	30.5–44.5	31.2	
1,4-Dichlorobenzene (µg/L)	46.4	36.6–55.2	33.2◆	
Dichlorodifluoromethane (µg/L)	<5.0	—	<10.0*	
1,1-Dichloroethane (µg/L)	<5.0	—	<5.0	
1,2-Dichloroethane (µg/L)	44.7	35.7–54.8	41.7	
1,1-Dichloroethylene (µg/L)	12.4	7.81–18.8	10.7	
cis-1,2-Dichloroethylene (µg/L)	<5.0	—	<5.0	
trans-1,2-Dichloroethylene (µg/L)	<5.0	—	<5.0	
Dichloromethane (Methylene chloride) (µg/L)	29.8	22.6–37.7	19.9◆	
1,2-Dichloropropane (µg/L)	<5.0	—	<5.0	
cis-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
trans-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
Ethylbenzene (µg/L)	15.0	11.8–17.9	12.9	
2-Hexanone (µg/L)	<5.0	—	<10.0*	
Methyl ethyl ketone (MEK) (µg/L)	<5.0	—	<10.0*	
Methyl isobutyl ketone (MIBK) (µg/L)	83.1	52.5–111	59.5	
Styrene (µg/L)	<5.0	—	<5.0	
1,1,1,2-Tetrachloroethane (µg/L)	<5.0	—	<5.0	
1,1,2,2-Tetrachloroethane	<5.0	—	<5.0	
Tetrachloroethylene (µg/L)	36.2	27.7–42.8	33.3	
Toluene (µg/L)	19.3	15.4–22.7	16.8	
1,1,1-Trichloroethane (µg/L)	34.7	26.4–41.9	29.3	
1,1,2-Trichloroethane (µg/L)	129	101–154	❖	
Trichloroethylene (µg/L)	35.6	27.0–42.3	30.6	
Trichlorofluoromethane (µg/L)	<5.0	—	<5.0	
1,2,3-Trichloropropane (µg/L)	<5.0	—	<5.0	
Vinyl acetate (µg/L)	<5.0	—	<10.0*	
m/p-Xylene (µg/L)	23.1	16.1–28.6	20.0	
o-Xylene (µg/L)	37.2	26.0–46.1	29.6	
Xylenes, total (µg/L)	60.3	42.1–74.8	49.6	

— Certified values and/or performance acceptance limits were not provided.

\* Insufficient information to determine if result is in or out of range.

D.L. Detection limit

❖ Value not reported by laboratory.

◆ Result is out of range.

J The analytical result is an estimated quantity.

*Table 43. Quality Control Standards for Selected Analyses for EM*

<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>EM Result</b>	<b>Functional Guideline Code</b>
<b>Trace Metals (Lot 99106)</b>				
Aluminum (µg/L)	478	392–564	429	
Antimony (µg/L)	198	148–234	189	
Arsenic (µg/L)	347	260–409	331	
Barium (µg/L)	80.4	65.9–94.9	84.2	
Beryllium (µg/L)	252	207–297	246	
Boron (µg/L)	218	179–257	206	
Cadmium (µg/L)	233	191–275	235	
Chromium (µg/L)	966	792–1,140	965	
Cobalt (µg/L)	851	698–1,000	910	
Copper (µg/L)	818	671–965	769	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>EM Result</b>	<b>Functional Guideline Code</b>
Iron (µg/L)	3,240	2,660–3,820	3,273	
Lead (µg/L)	625	513–738	646	
Manganese (µg/L)	2,820	2,310–3,330	2,873	
Mercury (µg/L)	26.4	19.8–33.0	26.1	
Molybdenum (µg/L)	335	275–395	329	
Nickel (µg/L)	208	171–245	206	
Selenium (µg/L)	1,060	795–1,250	986	
Silver (µg/L)	488	400–576	477	
Strontium (µg/L)	267	219–315	165◆	
Thallium (µg/L)	861	646–1,020	891	
Vanadium (µg/L)	652	535–769	644	
Zinc (µg/L)	1,670	1,370–1,970	1,697	
<b>Volatiles (Lot 610)</b>				
Acetone (µg/L)	<5.0	—	◆	
Acetonitrile (µg/L)	<5.0	—	◆	
Acrolein (µg/L)	<5.0	—	◆	
Acrylonitrile (µg/L)	<5.0	—	◆	
Benzene (µg/L)	29.3	23.8–35.1	◆	
Bromodichloromethane (µg/L)	59.1	47.8–71.0	◆	
Bromoform (µg/L)	55.9	43.2–69.8	◆	
Bromomethane (Methyl bromide) (µg/L)	<5.0	—	◆	
Carbon disulfide (µg/L)	<5.0	—	◆	
Carbon tetrachloride (µg/L)	61.1	45.8–78.1	◆	
Chlorobenzene (µg/L)	35.1	28.3–41.3	◆	
Chloroethane (µg/L)	<5.0	—	◆	
Chloroethene (Vinyl chloride) (µg/L)	<5.0	—	◆	
2-Chloroethyl vinyl ether (µg/L)	<5.0	—	◆	
Chloroform (µg/L)	48.4	38.4–57.3	◆	
Chloromethane (Methyl chloride) (µg/L)	<5.0	—	◆	
Dibromochloromethane (µg/L)	46.0	35.5–56.0	◆	
1,2-Dibromo-3-chloropropane (DBCP) (µg/L)	<5.0	—	◆	
1,2-Dibromoethane (EDB) (µg/L)	<5.0	—	◆	
Dibromomethane (Methylene bromide) (µg/L)	<5.0	—	◆	
1,2-Dichlorobenzene (µg/L)	24.8	19.7–29.3	◆	
1,3-Dichlorobenzene (µg/L)	38.4	30.5–44.5	◆	
1,4-Dichlorobenzene (µg/L)	46.4	36.6–55.2	◆	
Dichlorodifluoromethane (µg/L)	<5.0	—	◆	
1,1-Dichloroethane (µg/L)	<5.0	—	◆	
1,2-Dichloroethane (µg/L)	44.7	35.7–54.8	◆	
1,1-Dichloroethylene (µg/L)	12.4	7.81–18.8	◆	
cis-1,2-Dichloroethylene (µg/L)	<5.0	—	◆	
trans-1,2-Dichloroethylene (µg/L)	<5.0	—	◆	
Dichloromethane (Methylene chloride) (µg/L)	29.8	22.6–37.7	◆	
1,2-Dichloropropane (µg/L)	<5.0	—	◆	
cis-1,3-Dichloropropylene (µg/L)	<5.0	—	◆	
trans-1,3-Dichloropropylene (µg/L)	<5.0	—	◆	
Ethylbenzene (µg/L)	15.0	11.8–17.9	◆	
2-Hexanone (µg/L)	<5.0	—	◆	
Methyl ethyl ketone (MEK) (µg/L)	<5.0	—	◆	
Methyl isobutyl ketone (MIBK) (µg/L)	83.1	52.5–111	◆	
Styrene (µg/L)	<5.0	—	◆	
1,1,1,2-Tetrachloroethane (µg/L)	<5.0	—	◆	
1,1,2,2-Tetrachloroethane	<5.0	—	◆	
Tetrachloroethylene (µg/L)	36.2	27.7–42.8	◆	
Toluene (µg/L)	19.3	15.4–22.7	◆	
1,1,1-Trichloroethane (µg/L)	34.7	26.4–41.9	◆	
1,1,2-Trichloroethane (µg/L)	129	101–154	◆	
Trichloroethylene (µg/L)	35.6	27.0–42.3	◆	
Trichlorofluoromethane (µg/L)	<5.0	—	◆	
1,2,3-Trichloropropane (µg/L)	<5.0	—	◆	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>EM Result</b>	<b>Functional Guideline Code</b>
Vinyl acetate (µg/L)	<5.0	—	❖	
m/p-Xylene (µg/L)	23.1	16.1–28.6	❖	
o-Xylene (µg/L)	37.2	26.0–46.1	❖	
Xylenes, total (µg/L)	60.3	42.1–74.8	❖	

- ◆ Result is out of range.  
— Certified values and/or performance acceptance limits were not provided.  
❖ Value not reported by laboratory.

*Table 44. Quality Control Standards for Selected Analyses for ML*

<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>ML Result</b>	<b>Functional Guideline Code</b>
<b>Acids (Lot 610)</b>				
2-Chlorophenol (µg/L)	131	58.6–143	79.8	
m/p-Cresol (3/4-Methylphenol) (µg/L)	<10.0	—	❖	
o-Cresol (2-Methylphenol) (µg/L)	20.5	D.L.–23.4	11.8	
2,4-Dichlorophenol (µg/L)	112	56.2–119	78.4	
2,4-Dimethyl phenol (µg/L)	92.2	36.0–104	67.4	
2,4-Dinitrophenol (µg/L)	105	19.7–117	77.4	
2-Methyl-4,6-dinitrophenol (µg/L)	<10.0	—	❖	
2-Nitrophenol (µg/L)	21.3	10.6–23.7	12.7	
4-Nitrophenol (µg/L)	78.4	D.L.–88.1	30.8	
Pentachlorophenol (µg/L)	128	58.0–153	103	
Phenol (µg/L)	41.2	D.L.–46.4	11.7	
2,4,5-Trichlorophenol (µg/L)	147	75.6–165	109	
2,4,6-Trichlorophenol (µg/L)	152	74.6–176	123	
<b>Base/Neutrals (Lot 610)</b>				
Acenaphthene (µg/L)	<10.0	—	<2.0	
Acenaphthylene (µg/L)	39.8	20.9–44.0	25.3	
Anthracene (µg/L)	91.1	47.2–104	72.9	
Benzo[a]anthracene (µg/L)	42.7	28.3–46.0	35.3	
Benzo[b]fluoranthene (µg/L)	57.6	27.2–70.1	<2.0◆	
Benzo[k]fluoranthene (µg/L)	<10.0	—	49.0◆	
Benzo[g,h,i]perylene (µg/L)	22.8	D.L.–28.8	19.7	
Benzo[a]pyrene (µg/L)	<10.0	—	<2.0	
Bis(2-chloroethoxy) methane (µg/L)	47.2	24.9–50.8	32.3	
Bis(2-chloroethyl) ether (µg/L)	<10.0	—	<1.8	
Bis(2-ethylhexyl) phthalate (µg/L)	121	45.8–151	101	
4-Bromophenyl phenyl ether (µg/L)	<10.0	—	<2.0	
Butylbenzyl phthalate (µg/L)	<10.0	—	<2.0	
4-Chloroaniline (µg/L)	<10.0	—	23.3◆	
2-Chloronaphthalene (µg/L)	124	48.0–139	63.3	
4-Chlorophenyl phenyl ether (µg/L)	95.2	50.4–107	63.4	
Chrysene (µg/L)	60.3	33.5–69.7	54.6	
Dibenz(a,h)anthracene	29.8	13.1–36.5	27.4	
Dibenzofuran (µg/L)	148	45.4–179	93.2	
Di-n-butyl phthalate (µg/L)	37.6	20.7–47.8	33.1	
1,2-Dichlorobenzene (µg/L)	37.0	D.L.–40.8	10.4	
1,3-Dichlorobenzene (µg/L)	<10.0	—	<2.0	
1,4-Dichlorobenzene (µg/L)	98.0	D.L.–107	24.2	
3,3'-Dichlorobenzidine (µg/L)	<10.0	—	<20.0*	
Diethyl phthalate (µg/L)	80.9	22.0–103	64.3	
Dimethyl phthalate (µg/L)	58.6	15.3–74.6	43.6	
2,4-Dinitrotoluene (µg/L)	57.0	29.9–66.2	43.8	

### Quality Control Samples



<i>Analyte</i>	<i>Certified Value</i>	<i>Performance Acceptance Limits</i>	<i>ML Result</i>	<i>Functional Guideline Code</i>
2,6-Dinitrotoluene (µg/L)	<10.0	—	<2.0	
Di-n-octyl phthalate (µg/L)	<10.0	—	<2.0	
Fluoranthene (µg/L)	<10.0	—	<2.0	
Fluorene (µg/L)	42.2	24.1–48.7	30.5	
Hexachlorobenzene (µg/L)	<10.0	—	<2.0	
Hexachlorobutadiene (µg/L)	166	57.6–170	13.3◆	
Hexachlorocyclopentadiene (µg/L)	<10.0	—	<2.0	
Hexachloroethane (µg/L)	<10.0	—	<2.0	
Indeno(1,2,3-c,d)pyrene (µg/L)	37.8	14.2–43.3	32.0	
Isophorone (µg/L)	139	70.0–162	106	
2-Methylnaphthalene (µg/L)	<10.0	—	<2.0	
Naphthalene (µg/L)	140	58.6–158	65	
2-Nitroaniline (µg/L)	<10.0	—	<5.0	
3-Nitroaniline (µg/L)	<10.0	—	<5.0	
4-Nitroaniline (µg/L)	<10.0	—	<24.0*	
Nitrobenzene (µg/L)	56.8	28.6–64.8	38.6	
2,2-Oxybis (1-Chloropropane/bis(2-Chloroisopropyl) ether (µg/L)	33.4	14.0–35.0	21.6	
Phenanthrene (µg/L)	53.5	32.6–60.7	41.9	
Pyrene (µg/L)	35.4	18.2–45.2	27.0	
1,2,4-Trichlorobenzene (µg/L)	114	50.4–118	33.5◆	
<b>PCBs in Water (Lot 607)</b>				
PCB 1016 (µg/L)	<1.0	—	<1.0	
PCB 1221 (µg/L)	<1.0	—	<1.0	
PCB 1232 (µg/L)	1.42	0.83–1.70	1.42	
PCB 1242 (µg/L)	<1.0	—	<1.0	
PCB 1248 (µg/L)	<1.0	—	<1.0	
PCB 1254 (µg/L)	<1.0	—	<1.0	
PCB 1260 (µg/L)	<1.0	—	<1.0	
<b>Pesticides (Lot 3247)</b>				
Aldrin (µg/L)	1.48	0.63–1.86	0.78	
Dieldrin (µg/L)	2.80	1.96–3.50	3.36	
Endrin (µg/L)	2.69	1.88–3.50	3.73◆	
Heptachlor (µg/L)	0.81	0.44–1.17	0.64	
Heptachlor epoxide (µg/L)	3.81	2.10–5.52	4.27	
Lindane (µg/L)	1.92	1.06–2.78	1.11	
Methoxychlor (µg/L)	28.4	15.6–41.2	21.3	
<b>Toxaphene (Lot 3245)</b>				
Toxaphene (µg/L)	15.0	8.25–21.8	7.82◆	
<b>Trace Metals (Lot 99106)</b>				
Aluminum (µg/L)	478	392–564	522	
Antimony (µg/L)	198	148–234	200	
Arsenic (µg/L)	347	260–409	343	
Barium (µg/L)	80.4	65.9–94.9	80.5	
Beryllium (µg/L)	252	207–297	244	
Cadmium (µg/L)	233	191–275	226	
Chromium (µg/L)	966	792–1,140	951	
Cobalt (µg/L)	851	698–1,000	874	
Copper (µg/L)	818	671–965	801	
Iron (µg/L)	3,240	2,660–3,820	3,250	
Lead (µg/L)	625	513–738	625	
Manganese (µg/L)	2,820	2,310–3,330	2,760	
Mercury (µg/L)	26.4	19.8–33.0	25.0	
Nickel (µg/L)	208	171–245	208	
Selenium (µg/L)	1,060	795–1,250	1,040	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>ML Result</b>	<b>Functional Guideline Code</b>
Silver (µg/L)	488	400–576	483	
Thallium (µg/L)	861	646–1,020	856	
Vanadium (µg/L)	652	535–769	656	
Zinc (µg/L)	1,670	1,370–1,970	1,690	
<b>Volatiles (Lot 610)</b>				
Acetone (µg/L)	<5.0	—	<10.0*	
Benzene (µg/L)	29.3	23.8–35.1	28.3	
Bromodichloromethane (µg/L)	59.1	47.8–71.0	59.4	
Bromoform (µg/L)	55.9	43.2–69.8	43.6	
Bromomethane (Methyl bromide) (µg/L)	<5.0	—	<1.0	
Carbon disulfide (µg/L)	<5.0	—	<5.0	
Carbon tetrachloride (µg/L)	61.1	45.8–78.1	55.5	
Chlorobenzene (µg/L)	35.1	28.3–41.3	36.0	
Chloroethane (µg/L)	<5.0	—	<1.0	
Chloroethene (Vinyl chloride) (µg/L)	<5.0	—	<1.0	
Chloroform (µg/L)	48.4	38.4–57.3	48.0	
Chloromethane (Methyl chloride) (µg/L)	<5.0	—	<1.0	
Dibromochloromethane (µg/L)	46.0	35.5–56.0	44.9	
1,1-Dichloroethane (µg/L)	<5.0	—	<1.0	
1,2-Dichloroethane (µg/L)	44.7	35.7–54.8	42.8	
1,1-Dichloroethylene (µg/L)	12.4	7.81–18.8	11.9	
cis-1,2-Dichloroethylene (µg/L)	<5.0	—	<1.0	
trans-1,2-Dichloroethylene (µg/L)	<5.0	—	<1.0	
Dichloromethane (Methylene chloride) (µg/L)	29.8	22.6–37.7	29.1	
1,2-Dichloropropane (µg/L)	<5.0	—	<1.0	
cis-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
trans-1,3-Dichloropropylene (µg/L)	<5.0	—	❖	
Ethylbenzene (µg/L)	15.0	11.8–17.9	15.1	
2-Hexanone (µg/L)	<5.0	—	<5.0	
Methyl ethyl ketone (MEK)/(2-Butanone) (µg/L)	<5.0	—	<5.0	
Methyl isobutyl ketone (MIBK) (µg/L)	83.1	52.5–111	86.2	
Styrene (µg/L)	<5.0	—	<1.0	
1,1,2,2-Tetrachloroethane (µg/L)	<5.0	—	<1.0	
Tetrachloroethylene (µg/L)	36.2	27.7–42.8	33.7	
Toluene (µg/L)	19.3	15.4–22.7	20.0	
1,1,1-Trichloroethane (µg/L)	34.7	26.4–41.9	32.5	
1,1,2-Trichloroethane (µg/L)	129	101–154	142	
Trichloroethylene (µg/L)	35.6	27.0–42.3	32.8	
Vinyl acetate (µg/L)	<5.0	—	<5.0	
Xylenes, total (µg/L)	60.3	42.1–74.8	60.5	

— Certified values and/or performance acceptance limits were not provided.

❖ Value not reported by laboratory.

◆ Result is out of range.

D.L. Detection limit

\* Insufficient information to determine if result is in or out of range.

*Table 45. Quality Control Standards for Selected Analyses for MS*

<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>MS Result</b>	<b>Functional Guideline Code</b>
<b>Acids (Lot 610)</b>				
2-Chlorophenol (µg/L)	131	58.6–143	100	
m/p-Cresol (3/4-Methylphenol) (µg/L)	<10.0	—	<44.0*	
o-Cresol (2-Methylphenol) (µg/L)	20.5	D.L.–23.4	16.0	J

## Quality Control Samples



<i>Analyte</i>	<i>Certified Value</i>	<i>Performance Acceptance Limits</i>	<i>MS Result</i>	<i>Functional Guideline Code</i>
2,4-Dichlorophenol (µg/L)	112	56.2–119	96.0	
2,4-Dimethyl phenol (µg/L)	92.2	36.0–104	32.0◆	
2,4-Dinitrophenol (µg/L)	105	19.7–117	120◆	
2-Methyl-4,6-dinitrophenol (µg/L)	<10.0	—	<22.0*	
2-Nitrophenol (µg/L)	21.3	10.6–23.7	22.0	J
4-Nitrophenol (µg/L)	78.4	D.L.–88.1	39.0	
Pentachlorophenol (µg/L)	128	58.0–153	120	
Phenol (µg/L)	41.2	D.L.–46.4	21.0	J
2,4,5-Trichlorophenol (µg/L)	147	75.6–165	130	
2,4,6-Trichlorophenol (µg/L)	152	74.6–176	130	
<b>Base/Neutrals (Lot 610)</b>				
Acenaphthene (µg/L)	<10.0	—	<11.0*	
Acenaphthylene (µg/L)	39.8	20.9–44.0	28.0	
Anthracene (µg/L)	91.1	47.2–104	50.0	
Benzo[a]anthracene (µg/L)	42.7	28.3–46.0	29.0	
Benzo[b]fluoranthene (µg/L)	57.6	27.2–70.1	30.0	
Benzo[k]fluoranthene (µg/L)	<10.0	—	<11.0*	
Benzo[g,h,i]perylene (µg/L)	22.8	D.L.–28.8	16.0	
Benzo[a]pyrene (µg/L)	<10.0	—	<11.0*	
Bis(2-chloroethoxy) methane (µg/L)	47.2	24.9–50.8	<11.0◆	
Bis(2-chloroethyl) ether (µg/L)	<10.0	—	<11.0*	
Bis(2-ethylhexyl) phthalate (µg/L)	121	45.8–151	100	
4-Bromophenyl phenyl ether (µg/L)	<10.0	—	<11.0*	
Butylbenzyl phthalate (µg/L)	<10.0	—	<11.0*	
4-Chloroaniline (µg/L)	<10.0	—	<11.0*	
2-Chloronaphthalene (µg/L)	124	48.0–139	<11.0◆	
4-Chlorophenyl phenyl ether (µg/L)	95.2	50.4–107	75.0	
Chrysene (µg/L)	60.3	33.5–69.7	52.0	
Dibenz(a,h)anthracene	29.8	13.1–36.5	22.0	
Dibenzofuran (µg/L)	148	45.4–179	100	
Di-n-butyl phthalate (µg/L)	37.6	20.7–47.8	33.0	
1,2-Dichlorobenzene (µg/L)	37.0	D.L.–40.8	27.0	
1,3-Dichlorobenzene (µg/L)	<10.0	—	<11.0*	
1,4-Dichlorobenzene (µg/L)	98.0	D.L.–107	55.0	
3,3'-Dichlorobenzidine (µg/L)	<10.0	—	<56.0*	
Diethyl phthalate (µg/L)	80.9	22.0–103	50.0	
Dimethyl phthalate (µg/L)	58.6	15.3–74.6	89.0◆	
2,4-Dinitrotoluene (µg/L)	57.0	29.9–66.2	50.0	
2,6-Dinitrotoluene (µg/L)	<10.0	—	<11.0*	
Di-n-octyl phthalate (µg/L)	<10.0	—	<11.0*	
Fluoranthene (µg/L)	<10.0	—	<11.0*	
Fluorene (µg/L)	42.2	24.1–48.7	31.0	
Hexachlorobenzene (µg/L)	<10.0	—	<11.0*	
Hexachlorobutadiene (µg/L)	166	57.6–170	92.0	
Hexachlorocyclopentadiene (µg/L)	<10.0	—	<11.0*	
Hexachloroethane (µg/L)	<10.0	—	<11.0*	
Indeno(1,2,3-c,d)pyrene (µg/L)	37.8	14.2–43.3	25.0	
Isophorone (µg/L)	139	70.0–162	110	
2-Methylnaphthalene (µg/L)	<10.0	—	<11.0*	
Naphthalene (µg/L)	140	58.6–158	❖	
2-Nitroaniline (µg/L)	<10.0	—	<11.0*	
3-Nitroaniline (µg/L)	<10.0	—	❖	
4-Nitroaniline (µg/L)	<10.0	—	<11.0*	
Nitrobenzene (µg/L)	56.8	28.6–64.8	39.0	
N-Nitrosodiethylamine (µg/L)	<10.0	—	<11.0*	
N-Nitrosodiphenylamine (µg/L)	<10.0	—	<11.0*	
2,2-Oxybis (1-Chloropropane) (µg/L)	33.4	14.0–35.0	22.0	
Phenanthrene (µg/L)	53.5	32.6–60.7	38.0	
Pyrene (µg/L)	35.4	18.2–45.2	26.0	
1,2,4-Trichlorobenzene (µg/L)	114	50.4–118	73.0	

### Quality Control Samples



Analyte	Certified Value	Performance Acceptance Limits	MS Result	Functional Guideline Code
PCBs in Water (Lot 607)				
PCB 1016 (µg/L)	<1.0	—	<1.10*	J
PCB 1221 (µg/L)	<1.0	—	<2.20*	
PCB 1232 (µg/L)	1.42	0.83–1.70	<1.10*	
PCB 1242 (µg/L)	<1.0	—	1.0◆	
PCB 1248 (µg/L)	<1.0	—	<1.10*	
PCB 1254 (µg/L)	<1.0	—	<1.10*	
PCB 1260 (µg/L)	<1.0	—	<1.10*	
Pesticides (Lot 3247)				
Aldrin (µg/L)	1.48	0.63–1.86	0.68	
Dieldrin (µg/L)	2.80	1.96–3.50	2.90	
Endrin (µg/L)	2.69	1.88–3.50	3.40	
Heptachlor (µg/L)	0.81	0.44–1.17	0.68	
Heptachlor epoxide (µg/L)	3.81	2.10–5.52	4.0	
Lindane (µg/L)	1.92	1.06–2.78	2.30	
Methoxychlor (µg/L)	28.4	15.6–41.2	31.0	
Trace Metals (Lot 99106)				
Aluminum (µg/L)	478	392–564	450	
Antimony (µg/L)	198	148–234	180	
Arsenic (µg/L)	347	260–409	330	
Barium (µg/L)	80.4	65.9–94.9	74.0	
Beryllium (µg/L)	252	207–297	240	
Cadmium (µg/L)	233	191–275	220	
Chromium (µg/L)	966	792–1,140	920	
Cobalt (µg/L)	851	698–1,000	830	
Copper (µg/L)	818	671–965	740	
Iron (µg/L)	3,240	2,660–3,820	3,200	
Lead (µg/L)	625	513–738	610	
Manganese (µg/L)	2,820	2,310–3,330	2,600	
Mercury (µg/L)	26.4	19.8–33.0	29.0	
Nickel (µg/L)	208	171–245	20.0◆	
Selenium (µg/L)	1,060	795–1,250	1,000	
Silver (µg/L)	488	400–576	400	
Thallium (µg/L)	861	646–1,020	850	
Vanadium (µg/L)	652	535–769	630	
Zinc (µg/L)	1,670	1,370–1,970	1,600	
Volatiles (Lot 610)				
Acetone (µg/L)	<5.0	—	5.90◆	J
Benzene (µg/L)	29.3	23.8–35.1	27.0	
Bromodichloromethane (µg/L)	59.1	47.8–71.0	55.0	
Bromoform (µg/L)	55.9	43.2–69.8	49.0	
Bromomethane (Methyl bromide) (µg/L)	<5.0	—	<5.0	
Carbon disulfide (µg/L)	<5.0	—	<5.0	
Carbon tetrachloride (µg/L)	61.1	45.8–78.1	58.0	
Chlorobenzene (µg/L)	35.1	28.3–41.3	31.0	
Chloroethane (µg/L)	<5.0	—	<5.0	
Chloroethene (Vinyl chloride) (µg/L)	<5.0	—	<5.0	
Chloroform (µg/L)	48.4	38.4–57.3	47.0	
Chloromethane (Methyl chloride) (µg/L)	<5.0	—	<5.0	
Dibromochloromethane (µg/L)	46.0	35.5–56.0	41.0	
1,1-Dichloroethane (µg/L)	<5.0	—	42.0◆	
1,2-Dichloroethane (µg/L)	44.7	35.7–54.8	<5.0◆	
1,1-Dichloroethylene (µg/L)	12.4	7.81–18.8	14.0	
cis-1,2-Dichloroethylene (µg/L)	<5.0	—	<5.0	
trans-1,2-Dichloroethylene (µg/L)	<5.0	—	<5.0	

### Quality Control Samples



<b>Analyte</b>	<b>Certified Value</b>	<b>Performance Acceptance Limits</b>	<b>MS Result</b>	<b>Functional Guideline Code</b>
Dichloromethane (Methylene chloride) (µg/L)	29.8	22.6–37.7	30.0	
1,2-Dichloropropane (µg/L)	<5.0	—	<5.0	
cis-1,3-Dichloropropylene (µg/L)	<5.0	—	<5.0	
trans-1,3-Dichloropropylene (µg/L)	<5.0	—	<5.0	
Ethylbenzene (µg/L)	15.0	11.8–17.9	13.0	
2-Hexanone (µg/L)	<5.0	—	<10.0*	
Methyl ethyl ketone (MEK) (µg/L)	<5.0	—	<10.0*	
Methyl isobutyl ketone (MIBK) (µg/L)	83.1	52.5–111	78.0	
Styrene (µg/L)	<5.0	—	<5.0	
1,1,2,2-Tetrachloroethane	<5.0	—	<5.0	
Tetrachloroethylene (µg/L)	36.2	27.7–42.8	31.0	
Toluene (µg/L)	19.3	15.4–22.7	17.0	
1,1,1-Trichloroethane (µg/L)	34.7	26.4–41.9	32.0	
1,1,2-Trichloroethane (µg/L)	129	101–154	120	
Trichloroethylene (µg/L)	35.6	27.0–42.3	31.0	
Vinyl acetate (µg/L)	<5.0	—	<10.0*	
m/p-Xylene (µg/L)	23.1	16.1–28.6	20.0	
o-Xylene (µg/L)	37.2	26.0–46.1	32.0	
Xylenes, total (µg/L)	60.3	42.1–74.8	52.0	

— Certified values and/or performance acceptance limits were not provided.

\* Insufficient information to determine if result is in or out of range.

D.L. Detection limit

J The analytical result is an estimated quantity.

◆ Result is out of range.

❖ Value not reported by laboratory.

*Table 46. ML Performance Evaluation, Water Pollution Study WP77*

<b>Analyte</b>	<b>ML Result</b>	<b>Assigned Value</b>	<b>Acceptance Limits</b>
<b>PCBs in Water (Standard 1)</b>			
PCB 1016/1242 (µg/L)	0.0	0.0	*
PCB 1221 (µg/L)	0.0	0.0	*
PCB 1232 (µg/L)	2.39	2.18	0.57–3.40
PCB 1248 (µg/L)	0.0	0.0	*
PCB 1254 (µg/L)	0.0	0.0	*
PCB 1260 (µg/L)	0.0	0.0	*
<b>PCBs in Water (Standard 2)</b>			
PCB 1016/1242 (µg/L)	0.0	0.0	*
PCB 1221 (µg/L)	0.0	0.0	*
PCB 1232 (µg/L)	0.0	0.0	*
PCB 1248 (µg/L)	4.61	4.79	1.99–6.76
PCB 1254 (µg/L)	0.0	0.0	*
PCB 1260 (µg/L)	0.0	0.0	*
<b>Pesticides</b>			
Aldrin (µg/L)	0.54	0.63	0.16–0.85
alpha-BHC (µg/L)	8.23	9.76	3.47–13.6
beta-BHC (µg/L)	2.00	2.48	0.77–3.76
delta-BHC (µg/L)	17.6	13.9	3.70–18.9
gamma-BHC (Lindane) (µg/L)	7.46	8.96	2.94–13.0
alpha-Chlordane (µg/L)	2.04	2.53	0.78–4.16
gamma-Chlordane (µg/L)	0.0	0.0	*

## Quality Control Samples



<b>Analyte</b>	<b>ML Result</b>	<b>Assigned Value</b>	<b>Acceptance Limits</b>
p,p'-DDD (µg/L)	2.45	2.79	1.37–3.90
p,p'-DDE (µg/L)	1.38	1.49	0.70–2.03
p,p'-DDT (µg/L)	3.33	3.93	1.79–5.32
Dieldrin (µg/L)	2.00	2.44	1.26–3.37
Endrin (µg/L)	6.99	7.28	2.80–10.4
Endrin aldehyde (µg/L)	❖	5.44	1.79–7.99
Endrin ketone (µg/L)	5.78	7.70	0.0–19.3
Endosulfan I (µg/L)	5.28	7.04	2.90–10.1
Endosulfan II (µg/L)	15.7	14.6	3.49–22.8
Endosulfan sulfate (µg/L)	17.0	14.1	2.70–22.9
Heptachlor (µg/L)	0.79	0.74	0.20–1.03
Heptachlor epoxide (µg/L)	0.69	0.66	0.33–0.85
Methoxychlor (µg/L)	11.0	12.9	5.32–18.4

★ Acceptance limits were not provided.

❖ Value not reported by laboratory.

*Table 47. Laboratory Control Sample Recoveries for GE*

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA120.1</b>					
Specific conductance	0/1	98.0	—	98.0	98.0
<b>EPA160.1</b>					
Total dissolved solids	0/5	100	0.71	99.0	101
<b>EPA300.0</b>					
Chloride	0/1	99.0	—	99.0	99.0
Nitrate as nitrogen	0/9	96.3	2.24	91.0	99.0
Nitrite as nitrogen	0/9	101	3.53	93.0	105
Sulfate	0/10	97.4	1.96	93.0	100
<b>EPA310.1</b>					
Alkalinity (as CaCO <sub>3</sub> )	0/8	101	3.96	96.0	107
<b>EPA353.1</b>					
Nitrate-nitrite as nitrogen	0/25	96.4	6.26	83.0	108
<b>EPA365.4</b>					
Total phosphates (as P)	0/3	102	5.86	95.0	106
<b>EPA6010B</b>					
Aluminum	0/30	102	3.19	97.0	110
Antimony	0/12	104	3.84	99.0	112
Arsenic	0/20	101	3.28	97.0	108
Barium	0/17	103	3.49	99.0	112
Beryllium	0/10	101	2.51	98.0	107
Boron	0/5	96.0	2.55	93.0	99.0
Cadmium	0/18	103	3.23	97.0	110
Calcium	0/13	104	2.94	101	112
Chromium	0/21	104	2.70	101	112
Cobalt	0/8	101	1.04	100	103
Copper	0/11	100	4.47	96.0	110
Iron	0/11	103	3.82	97.0	112
Lead	0/33	105	3.87	99.0	116

### *Quality Control Samples*



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
Magnesium	0/13	105	3.45	101	113
Manganese	0/14	103	3.02	99.0	112
Nickel	0/12	102	3.20	97.0	108
Potassium	0/6	96.8	0.98	96.0	98.0
Selenium	0/18	102	2.92	98.0	109
Silver	0/18	101	4.19	94.0	108
Sodium	0/13	103	3.04	100	111
Thallium	0/9	102	2.26	100	107
Tin	0/5	101	1.58	99.0	103
Vanadium	0/8	101	1.36	99.0	103
Zinc	0/16	102	2.75	95.0	105
<b>EPA6020</b>					
Aluminum	0/4	106	0.50	106	107
Antimony	0/4	110	9.91	104	125
Arsenic	0/4	97.3	5.85	94.0	106
Barium	0/4	104	6.35	97.0	112
Beryllium	4/27	115	7.30	87.0	127
Cadmium	0/20	98.1	4.01	93.0	107
Chromium	0/5	108	4.69	101	113
Cobalt	0/4	102	4.43	98.0	108
Copper	0/4	102	5.32	98.0	110
Iron	0/5	105	3.70	101	110
Lead	0/4	96.0	6.06	92.0	105
Lithium	1/4	126	34.7	104	178
Nickel	0/4	102	4.65	97.0	108
Selenium	0/4	96.8	7.32	91.0	107
Silver	0/4	103	7.72	92.0	110
Thallium	0/21	94.8	4.82	87.0	107
Tin	0/4	106	2.08	103	108
Vanadium	0/4	102	4.43	98.0	108
Zinc	0/4	97.5	1.29	96.0	99.0
<b>EPA7196A</b>					
Chromium, hexavalent	0/1	100	—	100	100
<b>EPA7470A</b>					
Mercury	0/33	97.8	6.75	83.0	109
<b>EPA8081A</b>					
Aldrin	0/1	80.0	—	80.0	80.0
p,p'-DDT	0/1	88.0	—	88.0	88.0
Dieldrin	0/1	87.0	—	87.0	87.0
Endrin	0/3	91.3	20.5	71.0	112
Heptachlor	0/1	82.0	—	82.0	82.0
Lindane	0/1	82.0	—	82.0	82.0
PCB 1260	0/1	88.0	—	88.0	88.0
<b>EPA8082</b>					
PCB 1260	0/3	68.7	2.52	66.0	71.0
<b>EPA8260B</b>					
Benzene	0/46	94.2	8.17	83.0	112
Bromodichloromethane	0/6	96.3	13.0	81.0	115
Bromoform	0/6	104	12.3	83.0	117
Bromomethane	0/6	109	23.2	81.0	134
Carbon tetrachloride	0/6	101	21.1	72.0	131
Chlorobenzene	0/47	90.2	15.5	0.0	107
Chloroethane	0/6	89.3	10.8	78.0	102
Chloroethene	0/5	87.4	15.9	68.0	106
Chloroform	0/6	97.3	11.9	83.0	114

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
Chloromethane	0/6	88.2	17.7	62.0	113
Dibromochloromethane	0/6	102	14.4	87.0	123
1,1-Dichloroethane	0/6	94.3	4.27	87.0	99.0
1,2-Dichloroethane	0/10	83.7	9.90	75.0	105
1,1-Dichloroethylene	0/47	95.2	17.7	0.0	128
trans-1,2-Dichloroethylene	0/6	85.3	4.55	79.0	92.0
Dichloromethane	0/10	98.3	9.21	91.0	116
1,2-Dichloropropane	0/6	98.2	9.58	91.0	117
cis-1,3-Dichloropropene	0/6	99.5	7.06	88.0	107
trans-1,3-Dichloropropene	0/6	90.0	5.22	84.0	96.0
Ethylbenzene	0/6	93.8	4.17	88.0	99.0
1,1,2,2-Tetrachloroethane	0/6	98.0	7.62	91.0	109
Tetrachloroethylene	0/5	97.6	13.2	74.0	105
Toluene	0/47	85.9	5.32	78.0	99.0
1,1,1-Trichloroethane	0/6	96.8	15.2	79.0	118
1,1,2-Trichloroethane	0/10	96.3	4.50	90.0	105
Trichloroethylene	1/45	96.2	10.8	80.0	121
Trichlorofluoromethane	0/5	95.6	26.8	57.0	132
Xylenes	0/6	94.7	6.71	87.0	101
<b>EPA8270C</b>					
Acenaphthene	0/4	99.8	6.80	93.0	109
Benzo[a]anthracene	0/2	93.0	0.0	93.0	93.0
Benzo[b]fluoranthene	0/2	92.5	2.12	91.0	94.0
Benzo[k]fluoranthene	0/2	105	10.6	97.0	112
Benzo[a]pyrene	0/2	93.5	7.78	88.0	99.0
Bis(2-ethylhexyl) phthalate	0/9	86.9	8.78	75.0	101
4-Chloro-m-cresol	0/4	83.8	4.50	80.0	90.0
2-Chlorophenol	0/3	74.3	4.93	71.0	80.0
Chrysene	0/2	90.5	3.54	88.0	93.0
1,4-Dichlorobenzene	0/2	78.5	0.71	78.0	79.0
2,4-Dinitrotoluene	2/4	96.3	12.9	84.0	111
4-Nitrophenol	0/4	34.8	6.95	27.0	42.0
N-Nitrosodipropylamine	0/4	92.0	8.29	84.0	101
Pentachlorophenol	0/4	71.0	8.76	65.0	84.0
Phenol	0/4	31.8	3.59	27.0	35.0
Pyrene	0/4	91.0	5.89	85.0	97.0
1,2,4-Trichlorobenzene	0/4	83.3	1.89	82.0	86.0
<b>EPA8280</b>					
Octachlorodibenzo-p-dioxin	0/2	98.5	4.95	95.0	102
2,3,7,8-TCDD	0/1	100	—	100	100
<b>EPA9012A</b>					
Cyanide	1/20	109	7.71	91.0	124
<b>EPA9020B</b>					
Total organic halogens	0/4	99.5	10.8	85.0	111
<b>EPA9040B</b>					
pH	0/23	99.9	0.29	99.0	100
<b>EPA9050A</b>					
Specific conductance	0/17	99.5	0.94	98.0	101
<b>EPA9056</b>					
Chloride	0/5	93.2	1.10	92.0	95.0
Sulfate	0/6	97.2	1.17	96.0	99.0
Total phosphates (as P)	1/3	90.0	17.6	70.0	103

### Quality Control Samples



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA9060</b>					
Total organic carbon	0/2	99.0	4.24	96.0	102
<b>EPA9066</b>					
Phenols	0/12	97.8	3.93	92.0	105

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.  
— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

*Table 48. Laboratory Control Sample Recoveries for WA*

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA160.1</b>					
Total dissolved solids	1/41	106	7.27	86.0	121
<b>EPA300.0</b>					
Sulfate	0/4	93.3	0.0	93.3	93.3
<b>EPA310.1</b>					
Alkalinity (as CaCO <sub>3</sub> )	0/28	95.5	1.98	92.0	98.0
<b>EPA340.2</b>					
Fluoride	0/2	99.2	4.03	96.3	102
<b>EPA353.2</b>					
Nitrate-nitrite as nitrogen	0/11	101	2.85	96.0	108
<b>EPA365.2</b>					
Phosphate	0/6	96.2	3.22	93.3	101
Total phosphates (as P)	0/2	96.6	0.99	95.9	97.3
<b>EPA6010B</b>					
Aluminum	0/7	100	1.85	95.9	101
Antimony	0/8	99.3	2.18	96.6	102
Arsenic, TCLP	0/1	94.3	—	94.3	94.3
Arsenic	0/13	96.4	1.66	93.6	98.9
Barium	0/13	96.7	1.77	92.8	99.7
Beryllium	0/4	97.1	1.97	95.0	98.8
Boron	0/7	100	1.01	99.3	102
Cadmium	0/13	98.1	1.43	95.9	100
Calcium	0/1	94.5	—	94.5	94.5
Chromium	0/13	97.5	1.85	94.6	101
Cobalt	0/1	95.2	—	95.2	95.2
Copper	0/8	97.1	2.45	92.7	100
Iron	0/6	97.5	2.33	94.2	99.6
Lead, TCLP	0/1	97.0	—	97.0	97.0
Lead	0/14	97.4	1.41	95.0	100
Lithium	0/7	103	2.47	97.7	105
Magnesium	0/1	97.7	—	97.7	97.7
Manganese	0/1	97.3	—	97.3	97.3
Nickel	0/8	97.9	1.70	95.1	99.9
Selenium	0/13	98.5	1.76	95.6	102

### *Quality Control Samples*



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
Silver	0/13	97.4	2.70	92.0	101
Sodium	0/1	96.3	—	96.3	96.3
Thallium	0/4	99.0	2.88	94.9	101
Tin	0/7	97.5	2.17	94.2	99.8
Vanadium	0/1	96.7	—	96.7	96.7
Zinc	0/8	98.8	1.88	95.7	101
<b>EPA7470A</b>					
Mercury	0/18	102	4.05	93.8	110
<b>EPA8081A</b>					
Endrin	0/1	88.0	—	88.0	88.0
<b>EPA8082</b>					
PCB 1254	0/2	81.6	1.84	80.3	82.9
<b>EPA8260B</b>					
Benzene	0/24	101	7.46	87.0	117
Chlorobenzene	0/24	101	6.47	88.6	112
1,1-Dichloroethylene	0/28	93.2	13.4	68.2	118
Toluene	0/24	104	6.35	89.7	118
Trichloroethylene	0/38	94.9	10.7	77.9	112
<b>EPA8270C</b>					
Acenaphthene	0/2	77.3	3.11	75.1	79.5
4-Chloro-m-cresol	0/2	71.0	0.35	70.7	71.2
2-Chlorophenol	0/2	64.6	0.57	64.2	65.0
1,4-Dichlorobenzene	0/2	68.9	0.07	68.8	68.9
2,4-Dinitrotoluene	0/2	85.4	0.99	84.7	86.1
4-Nitrophenol	0/2	32.9	1.70	31.7	34.1
N-Nitrosodipropylamine	0/2	74.4	0.57	74.0	74.8
Pentachlorophenol	0/2	94.0	0.99	93.3	94.7
Phenol	0/2	30.0	1.34	29.0	30.9
Pyrene	0/2	86.8	2.97	84.7	88.9
1,2,4-Trichlorobenzene	0/2	78.5	2.90	76.4	80.5
<b>EPA8280A</b>					
Octachlorodibenzo-p-dioxin	0/1	102	—	102	102
<b>EPA9012A</b>					
Cyanide	0/2	96.5	3.18	94.2	98.7
<b>EPA9014</b>					
Cyanide	2/31	94.7	7.99	74.2	110
<b>EPA9020B</b>					
Total organic halogens	0/6	101	4.24	95.3	108
<b>EPA9050A</b>					
Specific conductance	0/8	100	1.26	98.6	102
<b>EPA9056</b>					
Bromide	0/1	101	—	101	101
Chloride	0/5	96.4	2.85	93.8	101
Nitrate as nitrogen	0/2	96.4	0.0	96.4	96.4
Nitrite as nitrogen	0/2	96.8	0.0	96.8	96.8
Sulfate	0/14	98.3	1.98	93.3	101
<b>EPA9060</b>					
Total organic carbon	0/13	105	1.96	102	107

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA9066</b>					
Phenols	0/20	95.0	4.57	90.1	105

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.  
— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

*Table 49. Laboratory Control Sample Recoveries for GP*

<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA900.0</b>					
Gross alpha	0/23	103	9.51	87.0	120
Nonvolatile beta	0/23	102	6.80	89.0	114
<b>RADA-001</b>					
Gross alpha	0/1	107	—	107	107
Nonvolatile beta	0/1	114	—	114	114
<b>RADA-002</b>					
Tritium	0/25	108	2.81	101	114
<b>RADA-003</b>					
Carbon-14	0/13	100	2.53	96.0	104
<b>RADA-004</b>					
Strontium-89/90	0/3	103	7.51	96.0	111
Strontium-90	0/10	93.5	5.28	85.0	101
<b>RADA-005</b>					
Technetium-99	0/8	101	6.54	89.0	110
<b>RADA-006</b>					
Iodine-129	0/7	106	8.41	94.0	117
<b>RADA-008</b>					
Radium-226	0/18	95.8	11.6	81.0	120
<b>RADA-009</b>					
Radium-228	2/20	107	9.69	90.0	124
<b>RADA-010</b>					
Radium, total alpha-emitting	0/12	109	10.4	85.0	121
<b>RADA-011</b>					
Americium-241	1/9	109	8.01	96.0	124
Curium-243/244	0/9	99.3	7.91	87.0	109
Plutonium-239/240	0/9	103	8.26	91.0	114
Uranium-238	0/9	89.8	6.82	80.0	101
<b>RADA-012</b>					
Thorium-232	0/8	95.3	6.67	83.0	104

## *Quality Control Samples*



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>RADA-013</b>					
Cesium-137	0/9	105	8.0	95.0	116
Cobalt-60	0/2	105	0.0	105	105
<b>RADA-022</b>					
Nickel-63	2/3	117	9.07	107	124

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.  
— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

*Table 50. Laboratory Control Sample Recoveries for ML*

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA8260B</b>					
Benzene	0/9	99.7	5.89	90.0	111
Chlorobenzene	0/9	100	2.01	98.0	104
1,1-Dichloroethylene	0/9	92.9	7.69	83.0	108
Toluene	0/9	101	2.52	98.0	106
Trichloroethylene	0/9	101	4.33	94.0	106
<b>EPA900.0</b>					
Gross alpha	0/4	100	9.71	87.0	108
Nonvolatile beta	0/2	104	4.95	100	107
<b>RADA-001</b>					
Gross alpha	0/9	96.8	7.46	84.0	108
Nonvolatile beta	0/8	96.8	3.77	90.0	101
<b>RADA-001B</b>					
Gross alpha	0/4	95.3	4.27	90.0	100
Nonvolatile beta	0/3	97.7	3.79	95.0	102
<b>RADA-002</b>					
Tritium	0/27	98.8	2.83	93.0	103
<b>RADA-013</b>					
Cesium-137	0/1	103	—	103	103

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.  
— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.



Table 51. Laboratory Control Sample Recoveries for SC

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>SCA-318</b> Radium-226	0/5	102	7.50	95.0	110
<b>SCA-319</b> Radium-228	2/5	81.0	4.56	76.6	87.4
<b>SCA-320</b> Carbon-14	0/3	102	0.0	102	102
<b>SCA-330</b> Americium-241	0/2	101	4.31	97.9	104
Thorium-230	0/2	90.0	3.25	87.7	92.3
Uranium-238	0/2	109	3.54	106	111
<b>SCA-333</b> Strontium-90	0/2	105	0.0	105	105
<b>SCA-334</b> Radium, total alpha-emitting	0/2	91.1	5.09	87.5	94.7
<b>SCA-335</b> Gross alpha	0/2	115	0.0	115	115
Nonvolatile beta	0/2	104	0.0	104	104
<b>SCA-337</b> Cesium-137	0/2	90.0	0.0	90.0	90.0
Cobalt-60	0/2	93.0	0.0	93.0	93.0
<b>SCA-339</b> Tritium	0/5	96.5	5.87	87.9	102
<b>SCA-341</b> Neptunium-237	0/2	101	27.4	81.3	120
<b>SCA-342</b> Technetium-99	0/5	99.1	2.79	96.4	103
<b>SCA-344</b> Iodine-129	0/2	110	0.0	110	110

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.

Note: A value of 0 is reported as 0.0.

Table 52. Laboratory Control Sample Recoveries for TM

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EICHROMTC1MOD</b> Technetium-99	0/1	101	—	101	101
<b>EMLSR02MOD</b> Strontium-90	0/1	109	—	109	109

### Quality Control Samples



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA902.0MOD</b> Iodine-129	0/1	97.9	—	97.9	97.9
<b>EPA904.0MOD</b> Radium-228	1/1	145	—	145	145

† Number of batches qualified that exhibit poor laboratory control sample and blank spike recovery due to interference compared to the total number of batches containing laboratory control samples and blank spikes.  
— Standard deviation cannot be determined.

Table 53. Surrogate Recoveries for GE

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA8081A</b> Decachlorobiphenyl Tetrachloro-m-xylene	0/25 0/25	73.3 75.1	12.6 18.0	48.1 49.6	103 135
<b>EPA8082</b> Decachlorobiphenyl Tetrachloro-m-xylene	0/18 0/18	72.5 67.6	18.6 24.2	43.6 50.6	129 158
<b>EPA8151A</b> 2,4-Dichlorophenylacetic acid	0/2	114	42.8	83.5	144
<b>EPA8260B</b> p-Bromofluorobenzene Dibromofluoromethane Toluene-d8	68/281 95/281 27/281	89.2 91.6 94.7	8.79 9.61 4.82	65.6 78.7 83.7	112 134 110
<b>EPA8270C</b> 2-Fluorobiphenyl 2-Fluorophenol Nitrobenzene-d5 Phenol-d5 p-Terphenyl-d14 2,4,6-Tribromophenol (surr)	0/92 0/33 0/92 0/33 0/92 0/30	74.1 44.6 72.3 30.4 85.1 81.2	12.0 12.8 14.2 11.4 16.4 21.0	43.7 0.0 38.2 0.0 42.3 0.0	95.8 69.6 103 56.7 112 109

† Number of batches qualified that exhibit poor surrogate recovery due to interference compared to the total number of batches containing surrogates.

Note: A value of 0 is reported as 0.0.

Table 54. Surrogate Recoveries for WA

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA8081A</b> Decachlorobiphenyl Tetrachloro-m-xylene	0/5 0/5	79.8 55.5	3.27 6.94	75.0 47.5	83.0 65.0
<b>EPA8082</b> Decachlorobiphenyl	0/7	81.1	10.9	67.0	96.0

### Quality Control Samples



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
Tetrachloro-m-xylene	0/7	53.9	10.6	40.0	67.5
<b>EPA8260B</b>					
p-Bromofluorobenzene	14/538	101	7.90	78.0	140
1,2-Dichloroethane-d4	49/538	97.7	11.0	63.0	140
Toluene-d8	20/538	101	5.51	82.0	134
<b>EPA8270C</b>					
2-Fluorobiphenyl	1/11	64.1	14.0	37.0	80.4
2-Fluorophenol	0/6	46.7	11.7	38.1	69.7
Nitrobenzene-d5	0/11	66.2	13.9	40.3	83.2
Phenol-d5	0/6	40.0	17.7	24.0	71.4
p-Terphenyl-d14	0/9	88.4	16.9	56.0	111
2,4,6-Tribromophenol (surr)	0/6	72.5	19.2	49.7	91.8
<b>EPA8280A</b>					
Carbon 13-labeled OCDD	0/5	84.8	10.2	71.0	96.0

† Number of batches qualified that exhibit poor surrogate recovery due to interference compared to the total number of batches containing surrogates.

Table 55. Surrogate Recoveries for ML

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA8260B</b>					
p-Bromofluorobenzene	63/68	82.2	2.38	77.7	87.6
Dibromofluoromethane	0/68	101	4.02	89.6	109
Toluene-d8	0/68	99.5	3.90	88.3	109

† Number of batches qualified that exhibit poor surrogate recovery due to interference compared to the total number of batches containing surrogates.

Table 56. Matrix Spike Recoveries for GE

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Bias (%)</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA300.0</b>						
Chloride	0/1	103	—	3.0	103	103
Nitrate as nitrogen	0/14	107	5.21	7.0	97.0	117
Nitrite as nitrogen	0/12	98.2	4.24	-1.80	92.0	108
Sulfate	0/15	100	4.32	0.0	94.0	109
<b>EPA310.1</b>						
Alkalinity (as CaCO <sub>3</sub> )	0/5	92.4	3.78	-7.60	88.0	96.0
<b>EPA353.1</b>						
Nitrate-nitrite as nitrogen	0/33	99.6	6.86	-0.40	86.0	116
<b>EPA353.2</b>						
Nitrate-nitrite as nitrogen	0/1	95.0	—	-5.0	95.0	95.0

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA365.4</b>						
Total phosphates (as P)	0/2	89.0	26.9	-11.0	70.0	108
<b>EPA6010B</b>						
Aluminum	0/62	116	57.4	16.0	49.0	402
Antimony	0/28	100	13.0	0.0	56.0	113
Arsenic	0/44	98.2	9.51	-1.80	58.0	109
Barium	0/40	101	12.3	1.0	56.0	127
Beryllium	0/26	96.8	11.9	-3.20	57.0	105
Boron	0/10	97.1	3.75	-2.90	93.0	103
Cadmium	0/40	99.0	9.09	-1.0	62.0	110
Calcium	0/34	-28.3	534	-128	-2,130	155
Chromium	0/44	101	9.93	1.0	58.0	110
Cobalt	0/24	96.9	12.4	-3.10	57.0	106
Copper	0/28	96.5	13.0	-3.50	54.0	112
Iron	0/30	76.1	86.1	-23.9	-238	114
Lead	0/66	102	9.58	2.0	62.0	132
Magnesium	0/34	80.4	87.9	-19.6	-264	126
Manganese	0/34	91.0	41.4	-9.0	-62.0	126
Nickel	0/28	98.2	10.9	-1.80	61.0	107
Potassium	0/20	88.0	17.7	-12.0	50.0	99.0
Selenium	0/40	98.3	10.2	-1.70	57.0	110
Silver	0/40	96.9	10.9	-3.10	55.0	111
Sodium	0/34	151	158	51.0	61.0	707
Thallium	0/24	96.4	11.7	-3.60	60.0	106
Tin	0/10	102	3.19	2.0	98.0	107
Vanadium	0/24	96.9	12.8	-3.10	56.0	106
Zinc	0/38	98.7	10.0	-1.30	59.0	109
<b>EPA6020</b>						
Aluminum	0/8	103	5.04	3.0	95.0	109
Antimony	0/8	110	8.76	10.0	104	124
Arsenic	0/8	94.5	6.28	-5.50	90.0	105
Barium	0/8	104	4.96	4.0	98.0	112
Beryllium	0/49	119	12.1	19.0	89.0	149
Cadmium	0/37	100	7.63	0.0	91.0	127
Chromium	0/8	100	5.63	0.0	94.0	109
Cobalt	0/8	98.9	6.45	-1.10	93.0	109
Copper	0/8	99.0	7.01	-1.0	93.0	110
Iron	0/8	101	5.79	1.0	95.0	109
Lead	0/8	91.8	7.48	-8.20	85.0	103
Lithium	0/8	133	35.9	33.0	100	189
Nickel	0/8	97.1	6.60	-2.90	92.0	108
Selenium	0/8	91.5	9.37	-8.50	84.0	108
Silver	0/8	101	7.74	1.0	90.0	111
Thallium	0/40	95.8	7.50	-4.20	86.0	118
Tin	0/8	105	2.20	5.0	103	109
Uranium	0/2	97.5	0.71	-2.50	97.0	98.0
Vanadium	0/8	99.0	5.61	-1.0	95.0	109
Zinc	0/8	90.9	3.52	-9.10	86.0	95.0
<b>EPA7196A</b>						
Chromium, hexavalent	0/2	55.5	77.1	-44.5	1.0	110
<b>EPA7470A</b>						
Mercury	0/60	198	668	98.0	81.0	5,240
<b>EPA8081A</b>						
Endrin	0/4	98.5	10.2	-1.50	88.0	110
PCB 1260	0/2	86.5	2.12	-13.5	85.0	88.0

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA8082</b>						
PCB 1260	0/4	100	33.4	0.0	82.0	150
<b>EPA8260B</b>						
Benzene	0/32	89.1	8.87	-10.9	79.0	115
Chlorobenzene	0/30	85.7	8.77	-14.3	72.0	111
1,1-Dichloroethylene	0/30	88.6	11.0	-11.4	76.0	130
Ethylbenzene	0/2	93.0	4.24	-7.0	90.0	96.0
Toluene	0/32	80.9	7.74	-19.1	71.0	106
Trichloroethylene	0/30	88.8	10.9	-11.2	77.0	119
Vinyl acetate	0/0	—	—	—	—	—
Xylenes	0/2	97.0	4.24	-3.0	94.0	100
<b>EPA8270C</b>						
Acenaphthene	0/2	93.0	2.83	-7.0	91.0	95.0
Acenaphthylene	0/2	91.0	4.24	-9.0	88.0	94.0
Anthracene	0/2	95.5	0.71	-4.50	95.0	96.0
Benidine	0/2	23.5	12.0	-76.5	15.0	32.0
Benzo[a]anthracene	0/6	92.0	5.44	-8.0	85.0	98.0
Benzo[b]fluoranthene	0/6	92.8	8.33	-7.20	84.0	104
Benzo[k]fluoranthene	0/6	86.5	43.0	-13.5	1.0	119
Benzo[g,h,i]perylene	0/2	70.5	2.12	-29.5	69.0	72.0
Benzo[a]pyrene	0/6	91.8	7.94	-8.20	82.0	101
Bis(2-chloroethoxy) methane	0/2	78.0	4.24	-22.0	75.0	81.0
Bis(2-chloroethyl) ether	0/2	68.5	4.95	-31.5	65.0	72.0
Bis(2-chloroisopropyl) ether	0/2	72.5	6.36	-27.5	68.0	77.0
Bis(2-ethylhexyl) phthalate	0/14	95.9	13.9	-4.10	79.0	117
4-Bromophenyl phenyl ether	0/2	91.5	2.12	-8.50	90.0	93.0
Butylbenzyl phthalate	0/2	112	0.0	12.0	112	112
4-Chloroaniline	0/2	72.0	0.0	-28.0	72.0	72.0
4-Chloro-m-cresol	0/2	88.0	0.0	-12.0	88.0	88.0
2-Chloronaphthalene	0/2	81.5	4.95	-18.5	78.0	85.0
2-Chlorophenol	0/2	68.0	2.83	-32.0	66.0	70.0
4-Chlorophenyl phenyl ether	0/2	88.5	3.54	-11.5	86.0	91.0
Chrysene	0/6	88.8	6.43	-11.2	83.0	100
m/p-Cresol	0/2	76.5	3.54	-23.5	74.0	79.0
o-Cresol	0/2	77.0	2.83	-23.0	75.0	79.0
Dibenz[a,h]anthracene	0/2	83.5	4.95	-16.5	80.0	87.0
Dibenzofuran	0/2	90.0	1.41	-10.0	89.0	91.0
Di-n-butyl phthalate	0/2	98.0	1.41	-2.0	97.0	99.0
1,2-Dichlorobenzene	0/2	61.5	6.36	-38.5	57.0	66.0
1,3-Dichlorobenzene	0/2	61.0	2.83	-39.0	59.0	63.0
1,4-Dichlorobenzene	0/2	63.5	3.54	-36.5	61.0	66.0
3,3'-Dichlorobenzidine	0/2	78.5	3.54	-21.5	76.0	81.0
2,4-Dichlorophenol	0/2	76.0	4.24	-24.0	73.0	79.0
Diethyl phthalate	0/2	90.5	2.12	-9.50	89.0	92.0
2,4-Dimethyl phenol	0/2	79.0	2.83	-21.0	77.0	81.0
Dimethyl phthalate	0/2	88.0	4.24	-12.0	85.0	91.0
2,4-Dinitrophenol	0/2	93.5	4.95	-6.50	90.0	97.0
2,4-Dinitrotoluene	0/2	89.5	3.54	-10.5	87.0	92.0
2,6-Dinitrotoluene	0/2	90.0	4.24	-10.0	87.0	93.0
Di-n-octyl phthalate	0/2	147	4.24	47.0	144	150
Diphenylamine	0/2	91.0	5.66	-9.0	87.0	95.0
Fluoranthene	0/2	98.5	3.54	-1.50	96.0	101
Fluorene	0/2	93.5	2.12	-6.50	92.0	95.0
Hexachlorobenzene	0/2	94.5	0.71	-5.50	94.0	95.0
Hexachlorobutadiene	0/2	66.5	3.54	-33.5	64.0	69.0
Hexachlorocyclopentadiene	0/2	61.5	7.78	-38.5	56.0	67.0
Hexachloroethane	0/2	60.0	4.24	-40.0	57.0	63.0
Indeno[1,2,3-c,d]pyrene	0/2	78.0	2.83	-22.0	76.0	80.0
Isophorone	0/2	87.5	0.71	-12.5	87.0	88.0

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
2-Methyl-4,6-dinitrophenol	0/2	83.5	2.12	-16.5	82.0	85.0
2-Methylnaphthalene	0/2	80.5	3.54	-19.5	78.0	83.0
Naphthalene	0/2	73.0	7.07	-27.0	68.0	78.0
m-Nitroaniline	0/2	86.0	1.41	-14.0	85.0	87.0
o-Nitroaniline	0/2	90.0	0.0	-10.0	90.0	90.0
p-Nitroaniline	0/2	78.5	2.12	-21.5	77.0	80.0
Nitrobenzene	0/2	75.5	4.95	-24.5	72.0	79.0
2-Nitrophenol	0/2	78.5	4.95	-21.5	75.0	82.0
4-Nitrophenol	0/2	61.5	0.71	-38.5	61.0	62.0
N-Nitrosodipropylamine	0/2	84.5	2.12	-15.5	83.0	86.0
Pentachlorophenol	0/2	77.5	0.71	-22.5	77.0	78.0
Phenanthrene	0/2	98.0	1.41	-2.0	97.0	99.0
Phenol	0/2	46.0	1.41	-54.0	45.0	47.0
Pyrene	0/2	98.0	4.24	-2.0	95.0	101
1,2,4-Trichlorobenzene	0/2	67.5	6.36	-32.5	63.0	72.0
2,4,5-Trichlorophenol	0/2	94.0	4.24	-6.0	91.0	97.0
2,4,6-Trichlorophenol	0/2	81.0	2.83	-19.0	79.0	83.0
<b>EPA9012A</b>						
Cyanide	0/22	110	34.2	10.0	36.0	175
<b>EPA9020B</b>						
Total organic halogens	0/5	96.2	9.31	-3.80	89.0	112
<b>EPA9056</b>						
Chloride	0/9	99.4	6.04	-0.60	95.0	115
Sulfate	0/10	108	12.7	8.0	95.0	138
Total phosphates (as P)	0/8	86.4	4.53	-13.6	81.0	94.0
<b>EPA9060</b>						
Dissolved organic carbon	0/2	88.0	5.66	-12.0	84.0	92.0
Total organic carbon	0/4	87.5	24.0	-12.5	53.0	108
<b>EPA9066</b>						
Phenols	0/8	85.1	21.6	-14.9	50.0	103

† Number of batches qualified that exhibit poor spike recovery due to interference compared to the total number of batches containing spikes.

— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

Table 57. Matrix Spike Recoveries for WA

<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA300.0</b>						
Sulfate	0/2	91.6	8.91	-8.40	85.3	97.9
<b>EPA353.2</b>						
Nitrate-nitrite as nitrogen	0/8	92.6	4.10	-7.40	87.2	98.4
<b>EPA365.2</b>						
Total phosphates (as P)	0/2	105	9.33	5.0	98.8	112
<b>EPA6010B</b>						
Aluminum, dissolved	0/2	96.8	0.64	-3.20	96.3	97.2

### Quality Control Samples



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
Aluminum	0/8	105	5.58	5.0	95.6	111
Antimony	0/13	99.3	3.38	-0.70	94.7	104
Arsenic, dissolved	0/2	94.1	0.42	-5.90	93.8	94.4
Arsenic	0/17	96.5	3.76	-3.50	91.4	103
Barium, dissolved	0/2	94.8	0.99	-5.20	94.1	95.5
Barium	0/17	95.4	2.06	-4.60	91.7	99.7
Beryllium	0/4	95.7	3.16	-4.30	92.3	99.5
Boron	0/11	98.6	2.89	-1.40	93.6	103
Cadmium, dissolved	0/2	95.3	0.99	-4.70	94.6	96.0
Cadmium	0/17	96.8	4.43	-3.20	89.8	105
Calcium	0/2	93.9	0.0	-6.10	93.9	93.9
Chromium, dissolved	0/2	97.0	0.35	-3.0	96.7	97.2
Chromium	0/17	96.8	3.39	-3.20	92.3	103
Cobalt	0/2	93.5	0.85	-6.50	92.9	94.1
Copper	0/13	95.4	1.90	-4.60	92.4	98.4
Iron, dissolved	0/2	97.4	0.64	-2.60	96.9	97.8
Iron	0/8	87.5	15.2	-12.5	62.8	99.3
Lead, dissolved	0/2	95.2	0.78	-4.80	94.6	95.7
Lead	0/17	96.4	3.57	-3.60	92.2	103
Lithium	0/11	104	4.08	4.0	99.3	111
Magnesium	0/2	94.8	0.57	-5.20	94.4	95.2
Manganese	0/2	95.5	0.07	-4.50	95.4	95.5
Nickel	0/13	97.5	3.92	-2.50	92.0	105
Potassium	0/2	101	0.71	1.0	100	101
Selenium, dissolved	0/2	94.9	0.0	-5.10	94.9	94.9
Selenium	0/17	96.8	3.18	-3.20	91.1	102
Silver, dissolved	0/2	96.1	0.42	-3.90	95.8	96.4
Silver	0/17	97.5	2.71	-2.50	93.4	102
Sodium	0/2	87.7	0.99	-12.3	87.0	88.4
Thallium	0/4	96.6	3.47	-3.40	93.8	101
Tin	0/11	100	3.20	0.0	95.7	104
Vanadium	0/2	95.3	0.99	-4.70	94.6	96.0
Zinc	0/13	97.6	3.62	-2.40	91.8	103
<b>EPA7470A</b>						
Mercury, dissolved	0/2	109	0.71	9.0	108	109
Mercury	0/22	92.9	11.3	-7.10	58.4	103
<b>EPA8081A</b>						
Endrin	0/1	98.0	—	-2.0	98.0	98.0
<b>EPA8082</b>						
PCB 1254	0/1	69.9	—	-30.1	69.9	69.9
<b>EPA8260B</b>						
Benzene	0/13	99.4	4.64	-0.60	87.6	104
Chlorobenzene	0/13	103	6.87	3.0	93.7	117
1,1-Dichloroethylene	0/14	88.7	15.2	-11.3	72.1	119
Toluene	0/13	105	4.47	5.0	96.0	111
Trichloroethylene	0/16	92.5	15.6	-7.50	61.6	114
<b>EPA8280A</b>						
Octachlorodibenzo-p-dioxin	0/1	102	—	2.0	102	102
<b>EPA9014</b>						
Cyanide	0/7	94.2	3.09	-5.80	90.7	100
<b>EPA9020B</b>						
Total organic halogens	0/5	98.2	9.20	-1.80	89.5	112

### Quality Control Samples



<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Bias (%)</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA9056</b>						
Nitrate as nitrogen	0/1	101	—	1.0	101	101
Nitrite as nitrogen	0/1	97.0	—	-3.0	97.0	97.0
Sulfate	0/5	99.0	5.22	-1.0	94.4	108
<b>EPA9060</b>						
Total organic carbon	0/10	109	5.76	9.0	99.0	118
<b>EPA9066</b>						
Phenols	0/7	98.3	4.05	-1.70	92.0	104

† Number of batches qualified that exhibit poor spike recovery due to interference compared to the total number of batches containing spikes.

— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

*Table 58. Matrix Spike Recoveries for GP*

<b>Analyte</b>	<b>Qualified Out of Range†</b>	<b>Mean Recovery (%)</b>	<b>Standard Deviation</b>	<b>Bias (%)</b>	<b>Minimum Recovery (%)</b>	<b>Maximum Recovery (%)</b>
<b>EPA900.0</b>						
Gross alpha	0/59	109	117	9.0	-127	858
Nonvolatile beta	0/59	105	17.4	5.0	75.0	209
<b>EPA904.0Modif</b>						
Radium-228	0/1	115	—	15.0	115	115
<b>RADA-002</b>						
Tritium	0/26	315	1,710	215	-1,830	8,420
<b>RADA-003</b>						
Carbon-14	0/21	101	4.41	1.0	87.0	107
<b>RADA-004</b>						
Strontium-89/90	0/3	93.7	6.43	-6.30	89.0	101
Strontium-90	0/18	118	236	18.0	-497	677
<b>RADA-005</b>						
Technetium-99	0/11	99.4	5.10	-0.60	91.0	106
<b>RADA-006</b>						
Iodine-129	0/10	99.1	13.2	-0.90	85.0	124
<b>RADA-008</b>						
Radium-226	0/23	98.7	12.0	-1.30	78.0	120
<b>RADA-009</b>						
Radium-228	0/25	99.8	10.5	-0.20	75.0	118
<b>RADA-010</b>						
Radium, total alpha-emitting	0/20	103	12.2	3.0	64.0	116
<b>RADA-011</b>						
Americium-241	0/8	101	14.1	1.0	85.0	132
Curium-243/244	0/8	107	13.4	7.0	88.0	131

### *Quality Control Samples*



<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
Plutonium-239/240	0/10	99.1	10.9	-0.90	81.0	112
Uranium-238	0/6	89.0	4.82	-11.0	84.0	96.0
<b>RADA-012</b>						
Thorium-232	0/11	97.5	13.4	-2.50	75.0	118
<b>RADA-013</b>						
Cesium-137	0/9	106	6.38	6.0	95.0	113
<b>RADA-022</b>						
Nickel-63	0/3	113	5.29	13.0	109	119
<b>RADA-032</b>						
Neptunium-237	0/4	92.0	10.0	-8.0	87.0	107

† Number of batches qualified that exhibit poor spike recovery due to interference compared to the total number of batches containing spikes.

— Standard deviation cannot be determined.

Note: A value of 0 is reported as 0.0.

*Table 59. Matrix Spike Recoveries for ML*

<i>Analyte</i>	<i>Qualified Out of Range†</i>	<i>Mean Recovery (%)</i>	<i>Standard Deviation</i>	<i>Bias (%)</i>	<i>Minimum Recovery (%)</i>	<i>Maximum Recovery (%)</i>
<b>EPA8260B</b>						
Benzene	0/16	103	3.79	3.0	95.0	110
Chlorobenzene	0/16	102	4.16	2.0	95.0	108
1,1-Dichloroethylene	0/16	94.6	15.5	-5.40	53.0	106
Toluene	0/16	104	3.26	4.0	97.0	109
Trichloroethylene	0/16	105	3.27	5.0	100	110
<b>EPA900.0</b>						
Gross alpha	0/8	93.9	2.95	-6.10	89.0	98.0
Nonvolatile beta	0/4	99.0	8.12	-1.0	87.0	105
<b>RADA-001</b>						
Gross alpha	0/20	95.4	14.2	-4.60	76.0	120
Nonvolatile beta	0/18	101	5.84	1.0	85.0	110
<b>RADA-001B</b>						
Gross alpha	0/10	97.4	10.1	-2.60	81.0	115
Nonvolatile beta	0/8	111	8.55	11.0	96.0	118
<b>RADA-002</b>						
Tritium	0/58	120	129	20.0	57.0	822

† Number of batches qualified that exhibit poor spike recovery due to interference compared to the total number of batches containing spikes.

Note: A value of 0 is reported as 0.0.

## *Quality Control Samples*



Table 60. Analytes Detected in Method Blanks for GE

Analyte	Frequency of Detection†	Mean Result	Standard Deviation	Minimum/Maximum Results
<b>EPA160.1</b>				
Total dissolved solids	0/5	10,000	0.0	10,000/10,000 µg/L
<b>EPA300.0</b>				
Chloride	0/1	100	—	100/100 µg/L
Nitrate as nitrogen	0/9	50.0	0.0	50.0/50.0 µg/L
Nitrite as nitrogen	0/9	50.0	0.0	50.0/50.0 µg/L
Sulfate	0/10	200	0.0	200/200 µg/L
<b>EPA353.1</b>				
Nitrate-nitrite as nitrogen	6/20	40.5	15.0	10.0/50.0 µg/L
<b>EPA365.4</b>				
Total phosphates (as P)	1/2	40.0	14.1	30.0/50.0 µg/L
<b>EPA6010B</b>				
Aluminum	0/27	50.0	0.0	50.0/50.0 µg/L
Antimony	0/12	10.0	0.0	10.0/10.0 µg/L
Arsenic	0/19	5.0	0.0	5.0/5.0 µg/L
Barium	6/17	3.40	2.23	0.24/5.0 µg/L
Beryllium	0/10	5.0	0.0	5.0/5.0 µg/L
Boron	0/5	50.0	0.0	50.0/50.0 µg/L
Cadmium	0/18	5.0	0.0	5.0/5.0 µg/L
Calcium	0/13	100	0.0	100/100 µg/L
Chromium	0/20	5.0	0.0	5.0/5.0 µg/L
Cobalt	2/8	3.92	1.99	0.63/5.0 µg/L
Copper	0/11	5.0	0.0	5.0/5.0 µg/L
Iron	0/11	50.0	0.0	50.0/50.0 µg/L
Lead	1/30	4.99	0.05	4.74/5.0 µg/L
Magnesium	6/13	14.4	6.44	4.57/20.0 µg/L
Manganese	0/13	10.0	0.0	10.0/10.0 µg/L
Nickel	2/12	4.46	1.29	1.13/5.0 µg/L
Potassium	1/6	84.6	37.8	7.34/100 µg/L
Selenium	0/18	5.0	0.0	5.0/5.0 µg/L
Silver	5/18	3.74	2.10	0.20/5.0 µg/L
Sodium	2/13	88.5	28.1	18.8/100 µg/L
Thallium	1/9	9.38	1.85	4.45/10.0 µg/L
Tin	1/5	8.51	3.32	2.57/10.0 µg/L
Vanadium	0/8	5.0	0.0	5.0/5.0 µg/L
Zinc	1/16	4.92	0.32	3.72/5.0 µg/L
<b>EPA6020</b>				
Aluminum	3/4	9.68	5.93	3.51/15.0 µg/L
Antimony	3/4	0.80	0.89	0.13/2.0 µg/L
Arsenic	3/4	1.80	0.82	1.18/3.0 µg/L
Barium	2/4	1.19	0.94	0.31/2.0 µg/L
Beryllium	0/26	0.20	0.0	0.20/0.20 µg/L
Cadmium	9/20	0.61	0.44	0.06/1.0 µg/L
Chromium	5/5	3.64	1.18	2.33/5.51 µg/L
Cobalt	0/4	1.0	0.0	1.0/1.0 µg/L
Copper	0/4	1.0	0.0	1.0/1.0 µg/L
Iron	4/5	21.3	11.6	12.0/40.0 µg/L
Lead	0/4	2.0	0.0	2.0/2.0 µg/L
Lithium	0/4	10.0	0.0	10.0/10.0 µg/L
Nickel	0/4	2.0	0.0	2.0/2.0 µg/L
Selenium	0/4	5.0	0.0	5.0/5.0 µg/L
Silver	3/4	0.40	0.41	0.12/1.0 µg/L
Thallium	7/20	0.36	0.21	0.02/0.53 µg/L

Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
Tin	2/4	2.79	2.55	0.48/5.0 µg/L
Vanadium	4/4	2.73	0.92	1.55/3.49 µg/L
Zinc	1/4	7.75	4.51	0.99/10.0 µg/L
<b>EPA7196A</b>				
Chromium, hexavalent	0/1	10.0	—	10.0/10.0 µg/L
<b>EPA7470A</b>				
Mercury	0/26	0.20	0.0	0.20/0.20 µg/L
<b>EPA8081A</b>				
Aldrin	0/1	0.02	—	0.02/0.02 µg/L
alpha-Benzene hexachloride	0/1	0.02	—	0.02/0.02 µg/L
beta-Benzene hexachloride	0/1	0.02	—	0.02/0.02 µg/L
delta-Benzene hexachloride	0/1	0.02	—	0.02/0.02 µg/L
alpha-Chlordane	0/1	0.02	—	0.02/0.02 µg/L
gamma-Chlordane	0/1	0.02	—	0.02/0.02 µg/L
p,p'-DDD	0/1	0.04	—	0.04/0.04 µg/L
p,p'-DDE	0/1	0.04	—	0.04/0.04 µg/L
p,p'-DDT	0/1	0.04	—	0.04/0.04 µg/L
Dieldrin	0/1	0.04	—	0.04/0.04 µg/L
Endosulfan sulfate	0/1	0.04	—	0.04/0.04 µg/L
Endosulfan I	0/1	0.02	—	0.02/0.02 µg/L
Endosulfan II	0/1	0.04	—	0.04/0.04 µg/L
Endrin	0/3	0.04	0.01	0.03/0.04 µg/L
Endrin aldehyde	0/1	0.04	—	0.04/0.04 µg/L
Heptachlor	0/1	0.02	—	0.02/0.02 µg/L
Heptachlor epoxide	0/1	0.02	—	0.02/0.02 µg/L
Lindane	0/1	0.02	—	0.02/0.02 µg/L
PCB 1260	0/1	0.10	—	0.10/0.10 µg/L
Toxaphene	0/7	1.0	0.0	1.0/1.0 µg/L
<b>EPA8082</b>				
PCB 1016	0/1	0.10	—	0.10/0.10 µg/L
PCB 1221	0/1	0.10	—	0.10/0.10 µg/L
PCB 1232	0/1	0.10	—	0.10/0.10 µg/L
PCB 1242	0/1	0.10	—	0.10/0.10 µg/L
PCB 1248	0/1	0.10	—	0.10/0.10 µg/L
PCB 1254	0/1	0.10	—	0.10/0.10 µg/L
PCB 1260	0/2	0.10	0.0	0.10/0.10 µg/L
<b>EPA8260B</b>				
Acetone	0/6	5.0	0.0	5.0/5.0 µg/L
Acetonitrile	0/4	25.0	0.0	25.0/25.0 µg/L
Acrolein	0/7	10.0	0.0	10.0/10.0 µg/L
Acrylonitrile	0/7	10.0	0.0	10.0/10.0 µg/L
Allyl chloride	0/4	5.0	0.0	5.0/5.0 µg/L
Benzene	0/45	2.09	7.30	1.0/50.0 µg/L
Bromodichloromethane	0/45	2.09	7.30	1.0/50.0 µg/L
Bromoform	0/45	2.09	7.30	1.0/50.0 µg/L
Bromomethane	0/45	2.09	7.30	1.0/50.0 µg/L
Carbon disulfide	0/6	5.0	0.0	5.0/5.0 µg/L
Carbon tetrachloride	0/45	2.09	7.30	1.0/50.0 µg/L
Chlorobenzene	0/45	2.09	7.30	1.0/50.0 µg/L
Chloroethane	0/45	2.09	7.30	1.0/50.0 µg/L
Chloroethene	0/45	2.09	7.30	1.0/50.0 µg/L
2-Chloroethyl vinyl ether	0/44	10.6	36.9	5.0/250 µg/L
Chloroform	0/45	2.09	7.30	1.0/50.0 µg/L
Chloromethane	0/45	2.09	7.30	1.0/50.0 µg/L
Chloroprene	0/4	1.0	0.0	1.0/1.0 µg/L
Dibromochloromethane	0/45	2.09	7.30	1.0/50.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
1,2-Dibromo-3-chloropropane	0/4	1.0	0.0	1.0/1.0 µg/L
1,2-Dibromoethane	0/19	1.0	0.0	1.0/1.0 µg/L
Dibromomethane	0/4	1.0	0.0	1.0/1.0 µg/L
1,2-Dichlorobenzene	0/3	1.0	0.0	1.0/1.0 µg/L
1,3-Dichlorobenzene	0/3	1.0	0.0	1.0/1.0 µg/L
1,4-Dichlorobenzene	1/7	0.89	0.29	0.24/1.0 µg/L
trans-1,4-Dichloro-2-butene	0/4	5.0	0.0	5.0/5.0 µg/L
Dichlorodifluoromethane	0/4	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethane	0/45	2.09	7.30	1.0/50.0 µg/L
1,2-Dichloroethane	0/41	2.20	7.65	1.0/50.0 µg/L
1,1-Dichloroethylene	0/45	2.09	7.30	1.0/50.0 µg/L
1,2-Dichloroethylene	0/2	2.0	0.0	2.0/2.0 µg/L
cis-1,2-Dichloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
trans-1,2-Dichloroethylene	0/39	2.26	7.85	1.0/50.0 µg/L
Dichloromethane	9/45	5.94	11.0	0.75/77.2 µg/L
1,2-Dichloropropane	0/45	2.09	7.30	1.0/50.0 µg/L
cis-1,3-Dichloropropene	0/45	2.09	7.30	1.0/50.0 µg/L
trans-1,3-Dichloropropene	0/45	2.09	7.30	1.0/50.0 µg/L
Ethylbenzene	0/45	2.09	7.30	1.0/50.0 µg/L
2-Hexanone	0/6	5.0	0.0	5.0/5.0 µg/L
Iodomethane	0/4	5.0	0.0	5.0/5.0 µg/L
Isobutyl alcohol	0/4	50.0	0.0	50.0/50.0 µg/L
Methacrylonitrile	0/4	5.0	0.0	5.0/5.0 µg/L
Methyl ethyl ketone	0/6	5.0	0.0	5.0/5.0 µg/L
Methyl isobutyl ketone	0/6	5.0	0.0	5.0/5.0 µg/L
Methyl methacrylate	0/4	5.0	0.0	5.0/5.0 µg/L
Propionitrile	0/4	5.0	0.0	5.0/5.0 µg/L
Styrene	0/6	1.0	0.0	1.0/1.0 µg/L
1,1,1,2-Tetrachloroethane	0/4	1.0	0.0	1.0/1.0 µg/L
1,1,2,2-Tetrachloroethane	0/45	2.09	7.30	1.0/50.0 µg/L
Tetrachloroethylene	0/45	2.09	7.30	1.0/50.0 µg/L
Toluene	8/45	1.96	7.33	0.23/50.0 µg/L
1,1,1-Trichloroethane	0/45	2.09	7.30	1.0/50.0 µg/L
1,1,2-Trichloroethane	0/45	2.09	7.30	1.0/50.0 µg/L
Trichloroethylene	0/45	2.09	7.30	1.0/50.0 µg/L
Trichlorofluoromethane	0/48	2.02	7.07	1.0/50.0 µg/L
1,2,3-Trichloropropane	0/4	1.0	0.0	1.0/1.0 µg/L
Vinyl acetate	0/6	5.0	0.0	5.0/5.0 µg/L
Xylenes	0/16	12.2	36.8	3.0/150 µg/L
<b>EPA8270C</b>				
Acenaphthene	0/2	1.0	0.0	1.0/1.0 µg/L
Acenaphthylene	0/2	1.0	0.0	1.0/1.0 µg/L
Anthracene	0/2	1.0	0.0	1.0/1.0 µg/L
Benzidine	0/2	50.0	0.0	50.0/50.0 µg/L
Benzo[a]anthracene	0/4	1.0	0.0	1.0/1.0 µg/L
Benzo[b]fluoranthene	0/4	1.0	0.0	1.0/1.0 µg/L
Benzo[k]fluoranthene	0/4	1.0	0.0	1.0/1.0 µg/L
Benzo[g,h,i]perylene	0/2	1.0	0.0	1.0/1.0 µg/L
Benzo[a]pyrene	0/4	1.0	0.0	1.0/1.0 µg/L
Bis(2-chloroethoxy) methane	0/2	10.0	0.0	10.0/10.0 µg/L
Bis(2-chloroethyl) ether	0/2	10.0	0.0	10.0/10.0 µg/L
Bis(2-chloroisopropyl) ether	0/2	10.0	0.0	10.0/10.0 µg/L
Bis(2-ethylhexyl) phthalate	1/11	0.94	0.21	0.30/1.0 µg/L
4-Bromophenyl phenyl ether	0/2	10.0	0.0	10.0/10.0 µg/L
Butylbenzyl phthalate	0/2	10.0	0.0	10.0/10.0 µg/L
4-Chloroaniline	0/1	10.0	—	10.0/10.0 µg/L
4-Chloro-m-cresol	0/2	10.0	0.0	10.0/10.0 µg/L
2-Chloronaphthalene	0/2	1.0	0.0	1.0/1.0 µg/L
2-Chlorophenol	0/3	10.0	0.0	10.0/10.0 µg/L
4-Chlorophenyl phenyl ether	0/2	10.0	0.0	10.0/10.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
Chrysene	0/4	1.0	0.0	1.0/1.0 µg/L
m/p-Cresol	0/1	10.0	—	10.0/10.0 µg/L
o-Cresol	0/1	10.0	—	10.0/10.0 µg/L
Dibenz[ <i>a,h</i> ]anthracene	0/2	1.0	0.0	1.0/1.0 µg/L
Dibenzofuran	0/1	10.0	—	10.0/10.0 µg/L
Di-n-butyl phthalate	0/2	10.0	0.0	10.0/10.0 µg/L
1,2-Dichlorobenzene	0/2	10.0	0.0	10.0/10.0 µg/L
1,3-Dichlorobenzene	0/2	10.0	0.0	10.0/10.0 µg/L
1,4-Dichlorobenzene	0/2	10.0	0.0	10.0/10.0 µg/L
3,3'-Dichlorobenzidine	0/2	10.0	0.0	10.0/10.0 µg/L
2,4-Dichlorophenol	0/3	10.0	0.0	10.0/10.0 µg/L
Diethyl phthalate	0/2	10.0	0.0	10.0/10.0 µg/L
2,4-Dimethyl phenol	0/3	10.0	0.0	10.0/10.0 µg/L
Dimethyl phthalate	0/2	10.0	0.0	10.0/10.0 µg/L
2,4-Dinitrophenol	0/3	20.0	0.0	20.0/20.0 µg/L
2,4-Dinitrotoluene	0/3	10.0	0.0	10.0/10.0 µg/L
2,6-Dinitrotoluene	0/3	10.0	0.0	10.0/10.0 µg/L
Di-n-octyl phthalate	0/2	10.0	0.0	10.0/10.0 µg/L
Diphenylamine	0/2	10.0	0.0	10.0/10.0 µg/L
1,2-Diphenylhydrazine	0/1	10.0	—	10.0/10.0 µg/L
Fluoranthene	0/2	1.0	0.0	1.0/1.0 µg/L
Fluorene	0/2	1.0	0.0	1.0/1.0 µg/L
Hexachlorobenzene	0/2	10.0	0.0	10.0/10.0 µg/L
Hexachlorobutadiene	0/2	10.0	0.0	10.0/10.0 µg/L
Hexachlorocyclopentadiene	0/2	10.0	0.0	10.0/10.0 µg/L
Hexachloroethane	0/2	10.0	0.0	10.0/10.0 µg/L
Indeno[1,2,3- <i>c,d</i> ]pyrene	0/2	1.0	0.0	1.0/1.0 µg/L
Isophorone	0/2	10.0	0.0	10.0/10.0 µg/L
2-Methyl-4,6-dinitrophenol	0/2	10.0	0.0	10.0/10.0 µg/L
2-Methylnaphthalene	0/1	1.0	—	1.0/1.0 µg/L
Naphthalene	0/2	1.0	0.0	1.0/1.0 µg/L
m-Nitroaniline	0/1	10.0	—	10.0/10.0 µg/L
o-Nitroaniline	0/1	10.0	—	10.0/10.0 µg/L
p-Nitroaniline	0/1	10.0	—	10.0/10.0 µg/L
Nitrobenzene	0/2	10.0	0.0	10.0/10.0 µg/L
2-Nitrophenol	0/2	10.0	0.0	10.0/10.0 µg/L
4-Nitrophenol	0/2	10.0	0.0	10.0/10.0 µg/L
N-Nitrosodimethylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosodipropylamine	0/2	10.0	0.0	10.0/10.0 µg/L
Pentachlorophenol	0/2	10.0	0.0	10.0/10.0 µg/L
Phenanthrene	0/2	1.0	0.0	1.0/1.0 µg/L
Phenol	0/2	10.0	0.0	10.0/10.0 µg/L
Pyrene	0/2	1.0	0.0	1.0/1.0 µg/L
1,2,4-Trichlorobenzene	0/3	10.0	0.0	10.0/10.0 µg/L
2,4,5-Trichlorophenol	0/2	10.0	0.0	10.0/10.0 µg/L
2,4,6-Trichlorophenol	0/3	10.0	0.0	10.0/10.0 µg/L
<b>EPA8280</b>				
Octachlorodibenzo-p-dioxin	0/1	0.01	—	0.01/0.01 µg/L
2,3,7,8-TCDD	0/1	0.01	—	0.01/0.01 µg/L
<b>EPA9012A</b>				
Cyanide	1/17	4.87	0.53	2.83/5.0 µg/L
<b>EPA9020B</b>				
Total organic halogens	1/4	8.86	2.28	5.44/10.0 µg/L
<b>EPA9056</b>				
Chloride	0/5	100	0.0	100/100 µg/L
Sulfate	0/6	200	0.0	200/200 µg/L
Total phosphates (as P)	1/3	40.0	17.3	20.0/50.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
<b>EPA9060</b> Total organic carbon	0/2	200	0.0	200/200 µg/L
<b>EPA9066</b> Phenols	0/8	5.0	0.0	5.0/5.0 µg/L

† Number of times analyte was detected compared to the total number of method blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

*Table 61. Analytes Detected in Method Blanks for WA*

<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
<b>EPA160.1</b> Total dissolved solids	9/22	29,400	20,800	3,000/50,000 µg/L
<b>EPA300.0</b> Sulfate	0/4	325	10.0	320/340 µg/L
<b>EPA310.1</b> Alkalinity (as CaCO <sub>3</sub> )	5/14	4.79	2.99	0.75/7.70 meq/L
<b>EPA340.2</b> Fluoride	1/1	17.0	—	17.0/17.0 µg/L
<b>EPA353.2</b> Nitrate-nitrite as nitrogen	0/11	23.4	11.2	20.0/57.0 µg/L
<b>EPA365.2</b> Phosphate	0/3	67.0	0.0	67.0/67.0 µg/L
Total phosphates (as P)	0/1	67.0	—	67.0/67.0 µg/L
<b>EPA6010B</b> Aluminum	2/7	92.1	67.3	14.6/146 µg/L
Antimony	0/8	27.0	0.0	27.0/27.0 µg/L
Arsenic	0/14	38.9	4.62	23.0/42.0 µg/L
Barium	7/13	1.46	0.98	0.22/3.0 µg/L
Beryllium	0/4	1.60	0.0	1.60/1.60 µg/L
Boron	0/7	266	0.0	266/266 µg/L
Cadmium	0/13	4.57	0.47	3.0/4.70 µg/L
Calcium	0/1	471	—	471/471 µg/L
Chromium	2/13	6.25	2.35	1.10/9.0 µg/L
Cobalt	0/1	4.50	—	4.50/4.50 µg/L
Copper	0/8	15.0	0.0	15.0/15.0 µg/L
Iron	2/6	55.9	28.8	8.90/74.0 µg/L
Lead	0/15	44.1	7.75	24.0/47.0 µg/L
Lithium	1/7	2.36	0.91	0.29/2.70 µg/L
Magnesium	1/1	13.6	—	13.6/13.6 µg/L
Manganese	0/1	7.80	—	7.80/7.80 µg/L
Nickel	0/8	26.0	0.0	26.0/26.0 µg/L
Selenium	0/13	62.9	11.1	26.0/66.0 µg/L
Silver	2/13	4.74	2.23	0.71/10.0 µg/L

### *Quality Control Samples*



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
Sodium	1/1	67.9	—	67.9/67.9 µg/L
Thallium	0/4	55.0	0.0	55.0/55.0 µg/L
Tin	0/7	70.0	0.0	70.0/70.0 µg/L
Vanadium	0/1	6.90	—	6.90/6.90 µg/L
Zinc	0/8	53.0	0.0	53.0/53.0 µg/L
<b>EPA7470A</b>				
Mercury, TCLP	0/2	0.70	0.0	0.70/0.70 µg/L
Mercury	0/19	0.68	0.09	0.30/0.70 µg/L
<b>EPA8081A</b>				
Endrin	0/1	0.10	—	0.10/0.10 µg/L
<b>EPA8082</b>				
PCB 1016	0/1	1.0	—	1.0/1.0 µg/L
PCB 1221	0/1	2.0	—	2.0/2.0 µg/L
PCB 1232	0/1	1.0	—	1.0/1.0 µg/L
PCB 1242	0/1	1.0	—	1.0/1.0 µg/L
PCB 1248	0/1	1.0	—	1.0/1.0 µg/L
PCB 1254	0/2	1.0	0.0	1.0/1.0 µg/L
PCB 1260	0/2	1.0	0.0	1.0/1.0 µg/L
<b>EPA8260B</b>				
Acetone	0/10	10.0	0.0	10.0/10.0 µg/L
Acetonitrile	0/7	20.0	0.0	20.0/20.0 µg/L
Acrolein	0/7	20.0	0.0	20.0/20.0 µg/L
Acrylonitrile	0/7	5.0	0.0	5.0/5.0 µg/L
Allyl chloride	0/7	10.0	0.0	10.0/10.0 µg/L
Benzene	0/37	5.0	0.0	5.0/5.0 µg/L
Bromodichloromethane	0/38	5.0	0.0	5.0/5.0 µg/L
Bromoform	0/38	5.0	0.0	5.0/5.0 µg/L
Bromomethane	0/38	10.0	0.0	10.0/10.0 µg/L
Carbon disulfide	0/10	5.0	0.0	5.0/5.0 µg/L
Carbon tetrachloride	0/38	5.0	0.0	5.0/5.0 µg/L
Chlorobenzene	0/38	5.0	0.0	5.0/5.0 µg/L
Chloroethane	0/38	10.0	0.0	10.0/10.0 µg/L
Chloroethene	0/73	10.0	0.0	10.0/10.0 µg/L
2-Chloroethyl vinyl ether	0/17	10.0	0.0	10.0/10.0 µg/L
Chloroform	0/38	5.0	0.0	5.0/5.0 µg/L
Chloromethane	0/47	10.0	0.0	10.0/10.0 µg/L
Chloroprene	0/7	5.0	0.0	5.0/5.0 µg/L
Dibromochloromethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,2-Dibromo-3-chloropropane	0/7	5.0	0.0	5.0/5.0 µg/L
1,2-Dibromoethane	0/7	5.0	0.0	5.0/5.0 µg/L
Dibromomethane	0/7	5.0	0.0	5.0/5.0 µg/L
1,4-Dichlorobenzene	0/7	5.0	0.0	5.0/5.0 µg/L
trans-1,4-Dichloro-2-butene	0/7	20.0	0.0	20.0/20.0 µg/L
Dichlorodifluoromethane	0/7	10.0	0.0	10.0/10.0 µg/L
1,1-Dichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,2-Dichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,1-Dichloroethylene	0/44	5.0	0.0	5.0/5.0 µg/L
1,2-Dichloroethylene	0/9	5.0	0.0	5.0/5.0 µg/L
cis-1,2-Dichloroethylene	0/36	5.0	0.0	5.0/5.0 µg/L
trans-1,2-Dichloroethylene	0/35	5.0	0.0	5.0/5.0 µg/L
Dichloromethane	9/40	6.31	3.55	1.42/18.2 µg/L
1,2-Dichloropropane	0/38	5.0	0.0	5.0/5.0 µg/L
cis-1,3-Dichloropropene	0/38	5.0	0.0	5.0/5.0 µg/L
trans-1,3-Dichloropropene	0/38	5.0	0.0	5.0/5.0 µg/L
Ethylbenzene	0/38	5.0	0.0	5.0/5.0 µg/L
2-Hexanone	0/10	10.0	0.0	10.0/10.0 µg/L
Iodomethane	0/7	5.0	0.0	5.0/5.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
Isobutyl alcohol	0/7	100	0.0	100/100 µg/L
Methacrylonitrile	0/7	10.0	0.0	10.0/10.0 µg/L
Methyl ethyl ketone	0/10	10.0	0.0	10.0/10.0 µg/L
Methyl isobutyl ketone	0/10	10.0	0.0	10.0/10.0 µg/L
Methyl methacrylate	0/7	10.0	0.0	10.0/10.0 µg/L
Propionitrile	0/7	50.0	0.0	50.0/50.0 µg/L
Styrene	0/10	5.0	0.0	5.0/5.0 µg/L
1,1,1,2-Tetrachloroethane	0/7	5.0	0.0	5.0/5.0 µg/L
1,1,2,2-Tetrachloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
Tetrachloroethylene	0/73	5.0	0.0	5.0/5.0 µg/L
Toluene	1/38	4.90	0.63	1.13/5.0 µg/L
1,1,1-Trichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,1,2-Trichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
Trichloroethylene	1/73	4.95	0.42	1.38/5.0 µg/L
Trichlorofluoromethane	3/37	4.72	0.98	0.90/5.0 µg/L
1,2,3-Trichloropropane	0/7	5.0	0.0	5.0/5.0 µg/L
Vinyl acetate	0/8	10.0	0.0	10.0/10.0 µg/L
Xylenes	0/38	5.0	0.0	5.0/5.0 µg/L
<b>EPA8270C</b>				
Acenaphthene	0/1	10.0	—	10.0/10.0 µg/L
Acenaphthylene	0/1	10.0	—	10.0/10.0 µg/L
Acetophenone	0/1	10.0	—	10.0/10.0 µg/L
2-Acetylaminofluorene	0/1	10.0	—	10.0/10.0 µg/L
4-Aminobiphenyl	0/1	10.0	—	10.0/10.0 µg/L
Aniline	0/1	10.0	—	10.0/10.0 µg/L
Anthracene	0/1	10.0	—	10.0/10.0 µg/L
Aramite	0/1	20.0	—	20.0/20.0 µg/L
Benzo[a]anthracene	0/2	10.0	0.0	10.0/10.0 µg/L
Benzo[b]fluoranthene	0/2	10.0	0.0	10.0/10.0 µg/L
Benzo[k]fluoranthene	0/2	10.0	0.0	10.0/10.0 µg/L
Benzoic acid	0/1	25.0	—	25.0/25.0 µg/L
Benzo[g,h,i]perylene	0/1	10.0	—	10.0/10.0 µg/L
Benzo[a]pyrene	0/2	10.1	0.14	10.0/10.2 µg/L
Benzyl alcohol	0/1	10.0	—	10.0/10.0 µg/L
Bis(2-chloroethoxy) methane	0/1	10.0	—	10.0/10.0 µg/L
Bis(2-chloroethyl) ether	0/1	10.0	—	10.0/10.0 µg/L
Bis(2-chloroisopropyl) ether	0/1	10.0	—	10.0/10.0 µg/L
Bis(2-ethylhexyl) phthalate	1/2	8.46	2.18	6.91/10.0 µg/L
4-Bromophenyl phenyl ether	0/1	10.0	—	10.0/10.0 µg/L
Butylbenzyl phthalate	0/1	10.0	—	10.0/10.0 µg/L
2-sec-Butyl-4,6-dinitrophenol	0/1	50.0	—	50.0/50.0 µg/L
4-Chloroaniline	0/1	10.0	—	10.0/10.0 µg/L
Chlorobenzilate	0/1	10.0	—	10.0/10.0 µg/L
4-Chloro-m-cresol	0/1	10.0	—	10.0/10.0 µg/L
2-Chloronaphthalene	0/1	10.0	—	10.0/10.0 µg/L
2-Chlorophenol	0/1	10.0	—	10.0/10.0 µg/L
4-Chlorophenyl phenyl ether	0/1	10.0	—	10.0/10.0 µg/L
Chrysene	0/2	10.0	0.0	10.0/10.0 µg/L
m/p-Cresol	0/1	10.0	—	10.0/10.0 µg/L
o-Cresol	0/1	10.0	—	10.0/10.0 µg/L
Diallylate	0/1	10.0	—	10.0/10.0 µg/L
Dibenz[a,h]anthracene	0/1	10.0	—	10.0/10.0 µg/L
Dibenzofuran	0/1	10.0	—	10.0/10.0 µg/L
Di-n-butyl phthalate	1/1	0.84	—	0.84/0.84 µg/L
1,2-Dichlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
1,3-Dichlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
1,4-Dichlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
3,3'-Dichlorobenzidine	0/1	10.0	—	10.0/10.0 µg/L
2,4-Dichlorophenol	0/1	10.0	—	10.0/10.0 µg/L
2,6-Dichlorophenol	0/1	10.0	—	10.0/10.0 µg/L

### Quality Control Samples



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
Diethyl phthalate	0/1	10.0	—	10.0/10.0 µg/L
2,4-Dimethyl phenol	0/1	10.0	—	10.0/10.0 µg/L
Dimethyl phthalate	0/1	10.0	—	10.0/10.0 µg/L
p-Dimethylaminoazobenzene	0/1	10.0	—	10.0/10.0 µg/L
7,12-Dimethylbenz[a]anthracene	0/1	10.0	—	10.0/10.0 µg/L
3,3'-Dimethylbenzidine	0/1	10.0	—	10.0/10.0 µg/L
a,a-Dimethylphenethylamine	0/1	10.0	—	10.0/10.0 µg/L
1,3-Dinitrobenzene	0/1	10.0	—	10.0/10.0 µg/L
2,4-Dinitrophenol	0/1	25.0	—	25.0/25.0 µg/L
2,4-Dinitrotoluene	0/1	10.0	—	10.0/10.0 µg/L
2,6-Dinitrotoluene	0/1	10.0	—	10.0/10.0 µg/L
Di-n-octyl phthalate	0/1	10.0	—	10.0/10.0 µg/L
1,4-Dioxane	0/1	10.0	—	10.0/10.0 µg/L
Diphenylamine	0/1	10.0	—	10.0/10.0 µg/L
Ethyl methacrylate	0/1	10.0	—	10.0/10.0 µg/L
Ethyl methanesulfonate	0/1	10.0	—	10.0/10.0 µg/L
Fluoranthene	0/1	10.0	—	10.0/10.0 µg/L
Fluorene	0/1	10.0	—	10.0/10.0 µg/L
Hexachlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
Hexachlorobutadiene	0/1	10.0	—	10.0/10.0 µg/L
Hexachlorocyclopentadiene	0/1	10.0	—	10.0/10.0 µg/L
Hexachloroethane	0/1	10.0	—	10.0/10.0 µg/L
Hexachlorophene	0/1	250	—	250/250 µg/L
Hexachloropropene	0/1	10.0	—	10.0/10.0 µg/L
Indeno[1,2,3-c,d]pyrene	0/1	10.0	—	10.0/10.0 µg/L
Isophorone	0/1	10.0	—	10.0/10.0 µg/L
Isosafrole	0/1	10.0	—	10.0/10.0 µg/L
Methapyrilene	0/1	10.0	—	10.0/10.0 µg/L
2-Methyl-4,6-dinitrophenol	0/1	25.0	—	25.0/25.0 µg/L
Methyl methacrylate	0/1	10.0	—	10.0/10.0 µg/L
Methyl methanesulfonate	0/1	10.0	—	10.0/10.0 µg/L
3-Methylcholanthrene	0/1	10.0	—	10.0/10.0 µg/L
2-Methylnaphthalene	0/1	10.0	—	10.0/10.0 µg/L
Naphthalene	0/1	10.0	—	10.0/10.0 µg/L
1,4-Naphthoquinone	0/1	10.0	—	10.0/10.0 µg/L
1-Naphthylamine	0/1	10.0	—	10.0/10.0 µg/L
2-Naphthylamine	0/1	10.0	—	10.0/10.0 µg/L
m-Nitroaniline	0/1	25.0	—	25.0/25.0 µg/L
o-Nitroaniline	0/1	25.0	—	25.0/25.0 µg/L
p-Nitroaniline	0/1	25.0	—	25.0/25.0 µg/L
Nitrobenzene	0/1	10.0	—	10.0/10.0 µg/L
2-Nitrophenol	0/1	10.0	—	10.0/10.0 µg/L
4-Nitrophenol	0/1	25.0	—	25.0/25.0 µg/L
4-Nitroquinoline-1-oxide	0/1	20.0	—	20.0/20.0 µg/L
N-Nitrosodi-n-butylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosodiethylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosodimethylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosodiphenylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosodipropylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosomethylethylamine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosomorpholine	0/1	10.0	—	10.0/10.0 µg/L
N-Nitrosopiperidine	0/1	50.0	—	50.0/50.0 µg/L
N-Nitrosopyrrolidine	0/1	10.0	—	10.0/10.0 µg/L
5-Nitro-o-toluidine	0/1	10.0	—	10.0/10.0 µg/L
Pentachlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
Pentachloroethane	0/1	10.0	—	10.0/10.0 µg/L
Pentachloronitrobenzene	0/1	50.0	—	50.0/50.0 µg/L
Pentachlorophenol	0/1	25.0	—	25.0/25.0 µg/L
Phenacetin	0/1	10.0	—	10.0/10.0 µg/L
Phenanthrene	0/1	10.0	—	10.0/10.0 µg/L
Phenol	0/1	10.0	—	10.0/10.0 µg/L

### Quality Control Samples



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
p-Phenylenediamine	0/1	10.0	—	10.0/10.0 µg/L
2-Picoline	0/1	10.0	—	10.0/10.0 µg/L
Pronamid	0/1	10.0	—	10.0/10.0 µg/L
Pyrene	0/1	10.0	—	10.0/10.0 µg/L
Pyridine	0/1	10.0	—	10.0/10.0 µg/L
Safrole	0/1	10.0	—	10.0/10.0 µg/L
1,2,4,5-Tetrachlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
2,3,4,6-Tetrachlorophenol	0/1	10.0	—	10.0/10.0 µg/L
o-Toluidine	0/1	10.0	—	10.0/10.0 µg/L
1,2,4-Trichlorobenzene	0/1	10.0	—	10.0/10.0 µg/L
2,4,5-Trichlorophenol	0/1	25.0	—	25.0/25.0 µg/L
2,4,6-Trichlorophenol	0/1	10.0	—	10.0/10.0 µg/L
1,3,5-Trinitrobenzene	0/1	10.0	—	10.0/10.0 µg/L
<b>EPA8280A</b>				
Octachlorodibenzo-p-dioxin	0/1	1.60	—	1.60/1.60 ng/L
<b>EPA9012A</b>				
Cyanide	0/1	15.2	—	15.2/15.2 µg/L
<b>EPA9014</b>				
Cyanide	0/16	19.7	7.96	15.2/33.0 µg/L
<b>EPA9020B</b>				
Total organic halogens	0/6	120	0.0	120/120 µg/L
<b>EPA9050A</b>				
Specific conductance	1/4	7.19	4.18	0.97/10.0 µS/cm
<b>EPA9056</b>				
Bromide	0/1	160	—	160/160 µg/L
Chloride	2/5	167	67.2	57.0/210 µg/L
Nitrate as nitrogen	0/2	250	0.0	250/250 µg/L
Nitrite as nitrogen	0/2	340	0.0	340/340 µg/L
Sulfate	0/14	321	47.2	210/340 µg/L
<b>EPA9060</b>				
Total organic carbon	0/13	1,030	111	1,000/1,400 µg/L
<b>EPA9066</b>				
Phenols	0/10	36.7	0.95	34.0/37.0 µg/L

† Number of times analyte was detected compared to the total number of method blanks for the analyte.  
— Standard deviation cannot be determined.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 62. Analytes Detected in Method Blanks for GP

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA900.0</b>				
Gross alpha	0/23	-1.11E-11	3.95E-10	-9.61E-10/1.11E-09 µCi/mL
Nonvolatile beta	0/23	2.51E-10	8.08E-10	-1.54E-09/2.34E-09 µCi/mL

## Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
<b>RADA-001</b>				
Gross alpha	0/1	-2.18E-10	—	-2.18E-10/-2.18E-10 µCi/mL
Nonvolatile beta	0/1	4.17E-10	—	4.17E-10/4.17E-10 µCi/mL
<b>RADA-002</b>				
Tritium	0/24	1.32E-08	1.67E-07	-3.02E-07/3.93E-07 µCi/mL
<b>RADA-003</b>				
Carbon-14	0/13	-2.44E-09	1.16E-08	-2.86E-08/9.36E-09 µCi/mL
<b>RADA-004</b>				
Strontium-89/90	0/3	-1.55E-10	1.89E-10	-2.91E-10/6.11E-11 µCi/mL
Strontium-90	0/10	1.78E-10	1.84E-10	-1.60E-10/3.43E-10 µCi/mL
<b>RADA-005</b>				
Technetium-99	0/8	-2.65E-09	5.53E-09	-1.17E-08/3.81E-09 µCi/mL
<b>RADA-006</b>				
Iodine-129	0/7	3.58E-10	3.76E-10	-2.58E-10/7.34E-10 µCi/mL
<b>RADA-008</b>				
Radium-226	0/18	2.43E-10	1.04E-10	2.40E-11/3.99E-10 µCi/mL
<b>RADA-009</b>				
Radium-228	1/20	4.29E-10	4.70E-10	-2.72E-10/1.28E-09 µCi/mL
<b>RADA-010</b>				
Radium, total alpha-emitting	1/12	8.79E-11	2.60E-10	-2.03E-10/8.47E-10 µCi/mL
<b>RADA-011</b>				
Americium-241	0/9	6.26E-11	7.36E-11	-5.67E-11/1.84E-10 µCi/mL
Americium-243	0/2	1.01E-10	1.20E-10	1.64E-11/1.86E-10 µCi/mL
Curium-242	0/9	6.19E-12	4.46E-11	-2.64E-11/1.22E-10 µCi/mL
Curium-243/244	0/9	2.34E-11	4.16E-11	-3.35E-11/1.09E-10 µCi/mL
Curium-245/246	0/9	3.99E-11	4.76E-11	-3.28E-12/1.26E-10 µCi/mL
Plutonium-238	0/9	1.39E-10	3.31E-10	-2.44E-10/9.39E-10 µCi/mL
Plutonium-239/240	1/9	1.23E-10	2.35E-10	0.0/7.13E-10 µCi/mL
Plutonium-244	0/1	1.29E-11	—	1.29E-11/1.29E-11 µCi/mL
Uranium-233/234	1/9	1.71E-10	4.65E-10	-1.14E-10/1.39E-09 µCi/mL
Uranium-235	0/9	2.17E-11	4.00E-11	-1.77E-11/9.27E-11 µCi/mL
Uranium-238	0/9	1.05E-10	2.36E-10	-5.88E-12/7.20E-10 µCi/mL
<b>RADA-012</b>				
Thorium-228	0/8	-2.21E-11	3.68E-11	-6.83E-11/3.67E-11 µCi/mL
Thorium-230	1/8	1.24E-10	1.19E-10	1.12E-11/3.07E-10 µCi/mL
Thorium-232	0/8	-2.41E-11	5.31E-11	-1.47E-10/2.31E-11 µCi/mL
<b>RADA-013</b>				
Actinium-228	0/9	3.89E-09	2.69E-09	1.15E-09/8.34E-09 µCi/mL
Antimony-125	0/9	6.68E-10	1.75E-09	-1.65E-09/4.14E-09 µCi/mL
Barium-133	0/1	-1.95E-09	—	-1.95E-09/-1.95E-09 µCi/mL
Bismuth-212	0/6	4.55E-09	4.89E-09	-1.53E-09/1.05E-08 µCi/mL
Bismuth-214	0/7	3.06E-09	2.58E-09	1.06E-10/5.29E-09 µCi/mL
Cerium-144	0/4	1.70E-09	4.10E-09	-4.09E-09/4.87E-09 µCi/mL
Cesium-134	0/9	-2.09E-10	8.31E-10	-1.04E-09/1.14E-09 µCi/mL
Cesium-137	0/9	2.45E-11	8.74E-10	-9.83E-10/1.51E-09 µCi/mL
Cobalt-57	0/4	3.18E-10	5.64E-10	-3.08E-10/1.03E-09 µCi/mL
Cobalt-60	0/9	8.81E-10	1.21E-09	-2.65E-10/2.95E-09 µCi/mL
Europium-152	0/9	1.84E-09	2.68E-09	-2.11E-09/6.33E-09 µCi/mL
Europium-154	0/9	1.33E-09	1.47E-09	-1.04E-09/2.97E-09 µCi/mL
Europium-155	0/9	1.42E-09	3.03E-09	-3.44E-09/6.24E-09 µCi/mL

### Quality Control Samples



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
Lead-212	0/9	2.81E-09	2.00E-09	7.50E-10/6.13E-09 µCi/mL
Lead-214	0/1	4.73E-09	—	4.73E-09/4.73E-09 µCi/mL
Manganese-54	0/4	3.57E-10	8.73E-10	-3.71E-10/1.39E-09 µCi/mL
Potassium-40	0/9	1.68E-08	1.13E-08	1.45E-09/3.70E-08 µCi/mL
Promethium-144	0/4	2.24E-10	5.74E-10	-3.75E-10/9.98E-10 µCi/mL
Promethium-146	0/9	-1.27E-10	1.04E-09	-1.81E-09/1.45E-09 µCi/mL
Ruthenium-106	0/4	-6.01E-09	2.53E-09	-7.57E-09/-2.25E-09 µCi/mL
Sodium-22	0/4	2.57E-10	5.82E-10	-3.74E-10/8.99E-10 µCi/mL
Thallium-208	0/7	1.65E-09	9.12E-10	2.85E-10/2.68E-09 µCi/mL
Thorium-234	0/4	6.79E-08	5.35E-08	2.60E-08/1.44E-07 µCi/mL
Yttrium-88	0/4	-1.69E-10	4.79E-10	-6.10E-10/5.10E-10 µCi/mL
Zinc-65	0/4	5.77E-10	1.38E-09	-1.13E-09/1.82E-09 µCi/mL
<b>RADA-022</b>				
Nickel-63	0/3	-2.37E-09	7.48E-09	-1.05E-08/4.23E-09 µCi/mL

† Number of times analyte was detected compared to the total number of method blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 63. Analytes Detected in Method Blanks for ML

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA8260B</b>				
Acetone	0/9	10.0	0.0	10.0/10.0 µg/L
Benzene	0/9	1.0	0.0	1.0/1.0 µg/L
Bromodichloromethane	0/9	1.0	0.0	1.0/1.0 µg/L
Bromoform	0/9	1.0	0.0	1.0/1.0 µg/L
Bromomethane	0/9	1.0	0.0	1.0/1.0 µg/L
Carbon disulfide	0/9	5.0	0.0	5.0/5.0 µg/L
Carbon tetrachloride	0/9	1.0	0.0	1.0/1.0 µg/L
Chlorobenzene	0/9	1.0	0.0	1.0/1.0 µg/L
Chloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
Chloroethene	0/9	1.0	0.0	1.0/1.0 µg/L
Chloroform	0/9	1.0	0.0	1.0/1.0 µg/L
Chloromethane	0/9	1.0	0.0	1.0/1.0 µg/L
Dibromochloromethane	0/9	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
1,2-Dichloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethylene	0/9	1.0	0.0	1.0/1.0 µg/L
1,2-Dichloroethylene	0/5	1.0	0.0	1.0/1.0 µg/L
cis-1,2-Dichloroethylene	0/9	1.0	0.0	1.0/1.0 µg/L
trans-1,2-Dichloroethylene	0/9	1.0	0.0	1.0/1.0 µg/L
Dichloromethane	0/9	10.0	0.0	10.0/10.0 µg/L
1,2-Dichloropropane	0/9	1.0	0.0	1.0/1.0 µg/L
cis-1,3-Dichloropropene	0/9	1.0	0.0	1.0/1.0 µg/L
trans-1,3-Dichloropropene	0/9	1.0	0.0	1.0/1.0 µg/L
Ethylbenzene	0/9	1.0	0.0	1.0/1.0 µg/L
2-Hexanone	0/9	5.0	0.0	5.0/5.0 µg/L
Methyl ethyl ketone	0/9	5.0	0.0	5.0/5.0 µg/L
Methyl isobutyl ketone	0/9	5.0	0.0	5.0/5.0 µg/L
Styrene	0/9	1.0	0.0	1.0/1.0 µg/L
1,1,2,2-Tetrachloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
Tetrachloroethylene	0/9	1.0	0.0	1.0/1.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
Toluene	0/9	1.0	0.0	1.0/1.0 µg/L
1,1,1-Trichloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
1,1,2-Trichloroethane	0/9	1.0	0.0	1.0/1.0 µg/L
Trichloroethylene	0/9	1.0	0.0	1.0/1.0 µg/L
Vinyl acetate	0/9	5.0	0.0	5.0/5.0 µg/L
Xylenes	0/9	1.0	0.0	1.0/1.0 µg/L
<b>EPA900.0</b>				
Gross alpha	0/4	1.56E-09	2.48E-09	-7.44E-10/4.91E-09 µCi/mL
Nonvolatile beta	0/2	-1.28E-09	4.76E-10	-1.62E-09/-9.47E-10 µCi/mL
<b>RADA-001</b>				
Gross alpha	0/9	3.80E-09	5.22E-09	-2.89E-09/1.50E-08 µCi/mL
Nonvolatile beta	0/8	-5.12E-10	2.11E-09	-2.48E-09/4.21E-09 µCi/mL
<b>RADA-001B</b>				
Gross alpha	0/4	9.90E-10	3.50E-09	-2.01E-09/5.75E-09 µCi/mL
Nonvolatile beta	0/3	-1.30E-09	1.56E-09	-3.09E-09/-2.47E-10 µCi/mL
<b>RADA-002</b>				
Tritium	0/27	2.25E-08	1.58E-07	-3.78E-07/2.41E-07 µCi/mL
<b>RADA-013</b>				
Actinium-228	0/1	1.65E-08	—	1.65E-08/1.65E-08 µCi/mL
Antimony-125	0/1	-2.44E-09	—	-2.44E-09/-2.44E-09 µCi/mL
Barium-133	0/1	-1.20E-08	—	-1.20E-08/-1.20E-08 µCi/mL
Bismuth-214	0/1	-3.02E-09	—	-3.02E-09/-3.02E-09 µCi/mL
Cesium-134	0/1	1.50E-09	—	1.50E-09/1.50E-09 µCi/mL
Cesium-137	0/1	2.35E-09	—	2.35E-09/2.35E-09 µCi/mL
Cobalt-60	0/1	-2.11E-09	—	-2.11E-09/-2.11E-09 µCi/mL
Europium-152	0/1	1.11E-09	—	1.11E-09/1.11E-09 µCi/mL
Europium-154	0/1	2.67E-08	—	2.67E-08/2.67E-08 µCi/mL
Europium-155	0/1	-2.90E-08	—	-2.90E-08/-2.90E-08 µCi/mL
Lead-212	0/1	9.58E-09	—	9.58E-09/9.58E-09 µCi/mL
Lead-214	0/1	1.05E-08	—	1.05E-08/1.05E-08 µCi/mL
Potassium-40	0/1	1.33E-07	—	1.33E-07/1.33E-07 µCi/mL
Promethium-146	0/1	-1.29E-08	—	-1.29E-08/-1.29E-08 µCi/mL
Thallium-208	0/1	4.13E-08	—	4.13E-08/4.13E-08 µCi/mL

† Number of times analyte was detected compared to the total number of method blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 64. Analytes Detected in Method Blanks for SC

<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
<b>SCA-318</b>				
Radium-226	0/2	9.00E-12	0.0	9.00E-12/9.00E-12 µCi/mL
<b>SCA-319</b>				
Radium-228	0/2	1.20E-10	0.0	1.20E-10/1.20E-10 µCi/mL
<b>SCA-320</b>				
Carbon-14	3/3	-1.84E-09	0.0	-1.84E-09/-1.84E-09 µCi/mL

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
<b>SCA-330</b>				
Americium-241	0/2	0.0	0.0	0.0/0.0 µCi/mL
Curium-242	0/2	0.0	0.0	0.0/0.0 µCi/mL
Plutonium-238	0/2	-6.20E-11	8.77E-11	-1.24E-10/0.0 µCi/mL
Thorium-228	0/2	-5.35E-11	2.85E-10	-2.55E-10/1.48E-10 µCi/mL
Thorium-230	0/2	4.10E-11	1.40E-10	-5.80E-11/1.40E-10 µCi/mL
Thorium-232	0/2	1.15E-10	4.38E-11	8.40E-11/1.46E-10 µCi/mL
Uranium-235	0/2	1.75E-11	2.47E-11	0.0/3.50E-11 µCi/mL
Uranium-238	0/2	9.60E-11	1.02E-10	2.40E-11/1.68E-10 µCi/mL
<b>SCA-333</b>				
Strontium-90	0/2	-2.30E-11	0.0	-2.30E-11/-2.30E-11 µCi/mL
<b>SCA-334</b>				
Radium, total alpha-emitting	0/2	-2.70E-11	0.0	-2.70E-11/-2.70E-11 µCi/mL
<b>SCA-335</b>				
Gross alpha	0/2	-4.87E-10	0.0	-4.87E-10/-4.87E-10 µCi/mL
Nonvolatile beta	0/2	5.46E-10	0.0	5.46E-10/5.46E-10 µCi/mL
<b>SCA-337</b>				
Actinium-228	0/2	1.43E-08	0.0	1.43E-08/1.43E-08 µCi/mL
Antimony-125	0/2	1.24E-08	0.0	1.24E-08/1.24E-08 µCi/mL
Barium-133	0/2	-2.99E-09	0.0	-2.99E-09/-2.99E-09 µCi/mL
Bismuth-214	0/2	-9.56E-10	0.0	-9.56E-10/-9.56E-10 µCi/mL
Cesium-134	0/2	-4.00E-09	0.0	-4.00E-09/-4.00E-09 µCi/mL
Cesium-137	0/2	-3.20E-09	0.0	-3.20E-09/-3.20E-09 µCi/mL
Cobalt-60	0/2	8.07E-09	0.0	8.07E-09/8.07E-09 µCi/mL
Europium-152	0/2	-2.30E-10	0.0	-2.30E-10/-2.30E-10 µCi/mL
Europium-154	0/2	-3.96E-09	0.0	-3.96E-09/-3.96E-09 µCi/mL
Europium-155	0/2	-1.57E-08	0.0	-1.57E-08/-1.57E-08 µCi/mL
Lead-212	0/2	1.58E-08	0.0	1.58E-08/1.58E-08 µCi/mL
Lead-214	0/2	3.41E-09	0.0	3.41E-09/3.41E-09 µCi/mL
Potassium-40	0/2	2.84E-08	0.0	2.84E-08/2.84E-08 µCi/mL
Promethium-146	0/2	-5.25E-07	0.0	-5.25E-07/-5.25E-07 µCi/mL
Thallium-208	0/2	1.96E-09	0.0	1.96E-09/1.96E-09 µCi/mL
<b>SCA-339</b>				
Tritium	0/2	8.80E-08	0.0	8.80E-08/8.80E-08 µCi/mL
<b>SCA-341</b>				
Neptunium-237	0/2	-5.75E-11	2.23E-10	-2.15E-10/1.00E-10 µCi/mL
<b>SCA-342</b>				
Technetium-99	0/2	8.40E-11	0.0	8.40E-11/8.40E-11 µCi/mL
<b>SCA-344</b>				
Iodine-129	0/2	3.69E-09	0.0	3.69E-09/3.69E-09 µCi/mL

† Number of times analyte was detected compared to the total number of method blanks for the analyte.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

## Quality Control Samples



Table 65. Analytes Detected in Method Blanks for TM

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EICHRMTC1MOD</b> Technetium-99	0/1	9.70E-10	—	9.70E-10/9.70E-10 µCi/mL
<b>EMLSR02MOD</b> Strontium-90	0/1	-2.10E-10	—	-2.10E-10/-2.10E-10 µCi/mL
<b>EPA902.0MOD</b> Iodine-129	0/1	6.50E-10	—	6.50E-10/6.50E-10 µCi/mL
<b>EPA904.0MOD</b> Radium-228	0/1	4.90E-10	—	4.90E-10/4.90E-10 µCi/mL

† Number of times analyte was detected compared to the total number of method blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the method blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 66. Analytes Detected in Field Blanks for GE

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA300.0</b> Nitrate as nitrogen	1/5	61.6	25.9	50.0/108 µg/L
Nitrite as nitrogen	0/5	50.0	0.0	50.0/50.0 µg/L
Sulfate	0/5	200	0.0	200/200 µg/L
<b>EPA353.1</b> Nitrate-nitrite as nitrogen	1/15	42.7	13.9	10.0/50.0 µg/L
<b>EPA365.4</b> Total phosphates (as P)	0/1	50.0	—	50.0/50.0 µg/L
<b>EPA6010B</b> Aluminum	0/10	50.0	0.0	50.0/50.0 µg/L
Antimony	0/5	10.0	0.0	10.0/10.0 µg/L
Arsenic	1/5	5.08	0.18	5.0/5.40 µg/L
Barium	1/4	2.70	2.66	0.21/5.0 µg/L
Beryllium	0/6	5.0	0.0	5.0/5.0 µg/L
Cadmium	0/4	5.0	0.0	5.0/5.0 µg/L
Calcium	1/5	92.4	17.0	61.9/100 µg/L
Chromium	0/6	5.0	0.0	5.0/5.0 µg/L
Cobalt	0/5	5.0	0.0	5.0/5.0 µg/L
Copper	0/5	5.0	0.0	5.0/5.0 µg/L
Iron	0/3	50.0	0.0	50.0/50.0 µg/L
Lead	0/9	5.0	0.0	5.0/5.0 µg/L
Magnesium	2/5	6.13	1.19	5.28/7.84 µg/L
Manganese	0/4	10.0	0.0	10.0/10.0 µg/L
Nickel	0/5	4.16	1.89	0.78/5.0 µg/L
Potassium	0/3	72.1	48.4	16.2/100 µg/L
Selenium	0/4	5.0	0.0	5.0/5.0 µg/L
Silver	0/4	3.80	2.40	0.20/5.0 µg/L
Sodium	0/5	100	0.0	100/100 µg/L
Thallium	0/5	8.88	2.50	4.42/10.0 µg/L

### Quality Control Samples



<i>Analyte</i>	<i>Frequency of Detection†</i>	<i>Mean Result</i>	<i>Standard Deviation</i>	<i>Minimum/Maximum Results</i>
Vanadium	0/5	5.0	0.0	5.0/5.0 µg/L
Zinc	0/5	5.0	0.0	5.0/5.0 µg/L
<b>EPA6020</b>				
Beryllium	0/12	0.20	0.0	0.20/0.20 µg/L
Cadmium	0/5	0.26	0.41	0.05/1.0 µg/L
Thallium	0/7	0.43	0.18	0.02/0.50 µg/L
<b>EPA7196A</b>				
Chromium, hexavalent	1/1	10.0	—	10.0/10.0 µg/L
<b>EPA7470A</b>				
Mercury	0/11	0.20	0.0	0.20/0.20 µg/L
<b>EPA8081A</b>				
Endrin	0/1	0.04	—	0.04/0.04 µg/L
<b>EPA8082</b>				
PCB 1260	0/1	0.10	—	0.10/0.10 µg/L
<b>EPA8270C</b>				
Benzo[a]anthracene	0/1	1.0	—	1.0/1.0 µg/L
Benzo[b]fluoranthene	0/1	1.0	—	1.0/1.0 µg/L
Benzo[k]fluoranthene	0/1	1.0	—	1.0/1.0 µg/L
Benzo[a]pyrene	0/1	1.0	—	1.0/1.0 µg/L
Bis(2-ethylhexyl) phthalate	1/2	1.25	0.36	0.99/1.50 µg/L
Chrysene	0/1	1.0	—	1.0/1.0 µg/L
<b>EPA8280</b>				
Octachlorodibenzo-p-dioxin	0/1	0.01	—	0.01/0.01 µg/L
<b>EPA9012A</b>				
Cyanide	0/5	5.0	0.0	5.0/5.0 µg/L
<b>EPA9040B</b>				
pH	14/14	5.95	0.63	5.33/7.93 pH
<b>EPA9050A</b>				
Specific conductance	13/13	4.51	5.97	1.01/22.0 µS/cm
<b>EPA9056</b>				
Chloride	0/1	100	—	100/100 µg/L
Sulfate	0/1	200	—	200/200 µg/L
Total phosphates (as P)	2/4	35.0	5.77	30.0/40.0 µg/L
<b>EPA9066</b>				
Phenols	1/1	6.78	—	6.78/6.78 µg/L

† Number of times analyte was detected compared to the total number of field blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the field blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

## Quality Control Samples



Table 67. Analytes Detected in Field Blanks for WA

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA160.1</b> Total dissolved solids	1/7	33,300	17,800	5,000/50,000 µg/L
<b>EPA300.0</b> Sulfate	2/2	162	1.41	161/163 µg/L
<b>EPA310.1</b> Alkalinity (as CaCO <sub>3</sub> )	0/6	5.92	2.44	1.0/7.70 meq/L
<b>EPA353.2</b> Nitrate-nitrite as nitrogen	2/6	23.0	17.5	6.0/57.0 µg/L
<b>EPA6010B</b> Antimony	0/6	24.7	3.61	20.0/27.0 µg/L
Arsenic	0/10	35.3	12.9	2.40/42.0 µg/L
Barium	3/8	1.95	2.73	0.20/8.30 µg/L
Boron	0/6	181	132	2.70/266 µg/L
Cadmium	0/8	4.13	0.74	3.0/4.70 µg/L
Chromium	0/8	6.72	3.97	0.81/11.0 µg/L
Copper	0/6	11.8	4.91	5.50/15.0 µg/L
Lead	0/11	32.7	11.3	24.0/47.0 µg/L
Lithium	0/6	2.33	0.57	1.60/2.70 µg/L
Nickel	0/6	18.7	11.3	4.10/26.0 µg/L
Selenium	0/8	47.3	20.1	26.0/66.0 µg/L
Silver	0/8	6.23	2.90	1.20/10.0 µg/L
Tin	0/6	67.7	3.61	63.0/70.0 µg/L
Zinc	0/6	54.7	2.58	53.0/58.0 µg/L
<b>EPA7470A</b> Mercury	0/8	0.68	0.27	0.30/1.0 µg/L
<b>EPA9014</b> Cyanide	1/8	18.0	10.3	2.26/33.0 µg/L
<b>EPA9020B</b> Total organic halogens	0/6	99.3	32.1	57.8/120 µg/L
<b>EPA9056</b> Sulfate	0/4	340	0.0	340/340 µg/L
<b>EPA9060</b> Total organic carbon	5/6	365	322	178/1,000 µg/L
<b>EPA9066</b> Phenols	2/6	26.0	17.0	3.89/37.0 µg/L

† Number of times analyte was detected compared to the total number of field blanks for the analyte.

Note: If the analyte was not detected in the field blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.



Table 68. Analytes Detected in Field Blanks for GP

Analyte	Frequency of Detection†	Mean Result	Standard Deviation	Minimum/Maximum Results
<b>EPA900.0</b>				
Gross alpha	1/17	2.08E-10	7.87E-10	-7.88E-10/2.67E-09 µCi/mL
Nonvolatile beta	0/16	1.60E-10	1.49E-09	-3.95E-09/2.17E-09 µCi/mL
<b>RADA-002</b>				
Tritium	0/20	-1.22E-07	2.49E-07	-5.59E-07/3.57E-07 µCi/mL
<b>RADA-003</b>				
Carbon-14	0/19	-3.29E-10	8.24E-09	-1.20E-08/2.03E-08 µCi/mL
<b>RADA-004</b>				
Strontium-90	2/20	3.00E-11	2.56E-10	-5.12E-10/6.82E-10 µCi/mL
<b>RADA-005</b>				
Technetium-99	0/7	6.95E-10	6.49E-09	-1.20E-08/6.88E-09 µCi/mL
<b>RADA-006</b>				
Iodine-129	1/8	1.72E-10	6.84E-10	-3.95E-10/1.73E-09 µCi/mL
<b>RADA-008</b>				
Radium-226	7/19	3.77E-10	2.78E-10	-5.10E-11/1.00E-09 µCi/mL
<b>RADA-009</b>				
Radium-228	3/19	6.63E-10	4.07E-10	-2.59E-11/1.33E-09 µCi/mL
<b>RADA-010</b>				
Radium, total alpha-emitting	0/19	7.96E-11	1.16E-10	-9.94E-11/3.77E-10 µCi/mL
<b>RADA-011</b>				
Americium-241	0/6	1.03E-12	5.58E-11	-6.60E-11/9.06E-11 µCi/mL
Americium-243	0/4	1.44E-10	9.54E-11	2.95E-11/2.62E-10 µCi/mL
Curium-242	0/6	1.37E-11	3.80E-11	-5.71E-11/4.49E-11 µCi/mL
Curium-243/244	0/6	2.97E-11	6.42E-11	-5.45E-11/1.03E-10 µCi/mL
Curium-245/246	1/6	9.40E-11	1.44E-10	-6.65E-11/3.02E-10 µCi/mL
Plutonium-238	0/7	-2.98E-12	7.02E-12	-1.18E-11/8.63E-12 µCi/mL
Plutonium-239/240	0/7	3.52E-11	3.11E-11	0.0/9.73E-11 µCi/mL
Uranium-233/234	1/8	5.06E-11	5.64E-11	-2.06E-11/1.62E-10 µCi/mL
Uranium-235	0/8	1.32E-11	2.51E-11	-1.70E-11/5.18E-11 µCi/mL
Uranium-238	0/8	2.08E-11	4.73E-11	-3.51E-11/1.06E-10 µCi/mL
<b>RADA-012</b>				
Thorium-228	0/8	5.44E-11	5.01E-11	-8.16E-12/1.39E-10 µCi/mL
Thorium-230	3/8	9.75E-11	9.55E-11	-4.91E-11/2.63E-10 µCi/mL
Thorium-232	0/8	1.82E-11	3.14E-11	-2.76E-11/6.83E-11 µCi/mL
<b>RADA-013</b>				
Actinium-228	2/6	1.20E-08	9.98E-09	3.81E-09/3.16E-08 µCi/mL
Antimony-125	0/6	2.04E-09	2.84E-09	-1.35E-09/5.67E-09 µCi/mL
Barium-133	0/3	5.33E-11	1.94E-09	-2.07E-09/1.72E-09 µCi/mL
Bismuth-212	0/3	4.76E-09	1.31E-09	3.78E-09/6.25E-09 µCi/mL
Bismuth-214	1/6	5.66E-09	2.91E-09	1.04E-09/9.66E-09 µCi/mL
Cesium-134	0/6	-3.12E-10	8.51E-10	-1.18E-09/1.07E-09 µCi/mL
Cesium-137	0/6	7.85E-10	7.54E-10	1.32E-10/2.03E-09 µCi/mL
Cobalt-60	0/6	3.70E-10	1.41E-09	-1.90E-09/2.45E-09 µCi/mL
Europium-152	0/6	7.41E-10	3.50E-09	-2.86E-09/5.20E-09 µCi/mL
Europium-154	0/6	1.21E-09	3.66E-09	-4.16E-09/6.58E-09 µCi/mL
Europium-155	0/6	-3.41E-10	3.32E-09	-3.92E-09/4.19E-09 µCi/mL
Lead-212	1/6	3.86E-09	2.68E-09	4.98E-11/7.12E-09 µCi/mL

Quality Control Samples



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
Lead-214	0/3	2.28E-09	2.52E-09	-5.96E-10/4.14E-09 µCi/mL
Potassium-40	2/6	2.96E-08	2.45E-08	8.80E-09/7.66E-08 µCi/mL
Promethium-146	0/6	2.91E-10	1.33E-09	-1.70E-09/2.26E-09 µCi/mL
Thallium-208	0/6	2.02E-09	1.25E-09	4.42E-10/3.94E-09 µCi/mL
<b>RADA-032</b>				
Neptunium-237	0/4	-5.28E-12	5.55E-11	-6.33E-11/5.65E-11 µCi/mL

† Number of times analyte was detected compared to the total number of field blanks for the analyte.

Note: If the analyte was not detected in the field blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 69. Analytes Detected in Field Blanks for ML

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA900.0</b>				
Gross alpha	0/1	3.12E-10	—	3.12E-10/3.12E-10 µCi/mL
<b>RADA-001</b>				
Gross alpha	0/4	9.78E-10	1.99E-09	-1.03E-09/3.34E-09 µCi/mL
Nonvolatile beta	0/3	1.89E-09	3.12E-09	-1.58E-09/4.48E-09 µCi/mL
<b>RADA-001B</b>				
Gross alpha	0/5	2.62E-10	3.90E-09	-2.54E-09/6.77E-09 µCi/mL
Nonvolatile beta	0/3	-2.31E-09	1.57E-09	-4.09E-09/-1.15E-09 µCi/mL
<b>RADA-002</b>				
Tritium	1/10	7.15E-07	2.53E-06	-4.08E-07/7.91E-06 µCi/mL

† Number of times analyte was detected compared to the total number of field blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the field blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 70. Analytes Detected in Trip Blanks for GE

<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
<b>EPA8260B</b>				
Acetone	0/1	5.0	—	5.0/5.0 µg/L
Acetonitrile	0/1	25.0	—	25.0/25.0 µg/L
Acrolein	0/2	10.0	0.0	10.0/10.0 µg/L
Acrylonitrile	0/2	10.0	0.0	10.0/10.0 µg/L
Allyl chloride	0/1	5.0	—	5.0/5.0 µg/L
Benzene	0/19	1.0	0.0	1.0/1.0 µg/L
Bromodichloromethane	0/18	1.0	0.0	1.0/1.0 µg/L
Bromoform	0/18	1.0	0.0	1.0/1.0 µg/L
Bromomethane	0/18	1.0	0.0	1.0/1.0 µg/L
Carbon disulfide	0/1	5.0	—	5.0/5.0 µg/L
Carbon tetrachloride	0/18	1.0	0.0	1.0/1.0 µg/L

### Quality Control Samples



<b>Analyte</b>	<b>Frequency of Detection†</b>	<b>Mean Result</b>	<b>Standard Deviation</b>	<b>Minimum/Maximum Results</b>
Chlorobenzene	0/18	1.0	0.0	1.0/1.0 µg/L
Chloroethane	0/18	1.0	0.0	1.0/1.0 µg/L
Chloroethene	0/18	1.0	0.0	1.0/1.0 µg/L
2-Chloroethyl vinyl ether	0/17	5.0	0.0	5.0/5.0 µg/L
Chloroform	1/18	0.97	0.12	0.50/1.0 µg/L
Chloromethane	0/18	1.0	0.0	1.0/1.0 µg/L
Chloroprene	0/1	1.0	—	1.0/1.0 µg/L
Dibromochloromethane	0/18	1.0	0.0	1.0/1.0 µg/L
1,2-Dibromo-3-chloropropane	0/1	1.0	—	1.0/1.0 µg/L
1,2-Dibromoethane	0/7	1.0	0.0	1.0/1.0 µg/L
Dibromomethane	0/1	1.0	—	1.0/1.0 µg/L
1,2-Dichlorobenzene	0/1	1.0	—	1.0/1.0 µg/L
1,3-Dichlorobenzene	0/1	1.0	—	1.0/1.0 µg/L
1,4-Dichlorobenzene	0/2	1.0	0.0	1.0/1.0 µg/L
trans-1,4-Dichloro-2-butene	0/1	5.0	—	5.0/5.0 µg/L
Dichlorodifluoromethane	0/1	1.0	—	1.0/1.0 µg/L
1,1-Dichloroethane	0/18	1.0	0.0	1.0/1.0 µg/L
1,2-Dichloroethane	0/13	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethylene	0/18	1.0	0.0	1.0/1.0 µg/L
trans-1,2-Dichloroethylene	0/17	1.0	0.0	1.0/1.0 µg/L
Dichloromethane	0/19	4.60	1.20	0.81/5.0 µg/L
1,2-Dichloropropane	0/18	1.0	0.0	1.0/1.0 µg/L
cis-1,3-Dichloropropene	0/18	1.0	0.0	1.0/1.0 µg/L
trans-1,3-Dichloropropene	0/18	1.0	0.0	1.0/1.0 µg/L
Ethylbenzene	0/18	1.0	0.0	1.0/1.0 µg/L
2-Hexanone	0/1	5.0	—	5.0/5.0 µg/L
Iodomethane	0/1	5.0	—	5.0/5.0 µg/L
Isobutyl alcohol	0/1	50.0	—	50.0/50.0 µg/L
Methacrylonitrile	0/1	5.0	—	5.0/5.0 µg/L
Methyl ethyl ketone	0/1	5.0	—	5.0/5.0 µg/L
Methyl isobutyl ketone	0/1	5.0	—	5.0/5.0 µg/L
Methyl methacrylate	0/1	5.0	—	5.0/5.0 µg/L
Propionitrile	0/1	5.0	—	5.0/5.0 µg/L
Styrene	0/1	1.0	—	1.0/1.0 µg/L
1,1,1,2-Tetrachloroethane	0/1	1.0	—	1.0/1.0 µg/L
1,1,2,2-Tetrachloroethane	0/18	1.0	0.0	1.0/1.0 µg/L
Tetrachloroethylene	0/18	1.0	0.0	1.0/1.0 µg/L
Toluene	2/18	0.89	0.26	0.28/1.0 µg/L
1,1,1-Trichloroethane	0/18	1.0	0.0	1.0/1.0 µg/L
1,1,2-Trichloroethane	0/19	1.0	0.0	1.0/1.0 µg/L
Trichloroethylene	0/18	1.0	0.0	1.0/1.0 µg/L
Trichlorofluoromethane	0/17	1.0	0.0	1.0/1.0 µg/L
1,2,3-Trichloropropane	0/1	1.0	—	1.0/1.0 µg/L
Vinyl acetate	0/1	5.0	—	5.0/5.0 µg/L
Xylenes	0/5	3.0	0.0	3.0/3.0 µg/L

† Number of times analyte was detected compared to the total number of trip blanks for the analyte.

— Standard deviation cannot be determined.

Note: If the analyte was not detected in the trip blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

## Quality Control Samples



Table 71. Analytes Detected in Trip Blanks for WA

Analyte	Frequency of Detection†	Mean Result	Standard Deviation	Minimum/Maximum Results
<b>EPA8260B</b>				
Acetone	0/8	10.0	0.0	10.0/10.0 µg/L
Acetonitrile	0/4	20.0	0.0	20.0/20.0 µg/L
Acrolein	0/4	20.0	0.0	20.0/20.0 µg/L
Acrylonitrile	0/4	5.0	0.0	5.0/5.0 µg/L
Allyl chloride	0/4	10.0	0.0	10.0/10.0 µg/L
Benzene	0/38	5.0	0.0	5.0/5.0 µg/L
Bromodichloromethane	0/38	5.0	0.0	5.0/5.0 µg/L
Bromoform	0/38	5.0	0.0	5.0/5.0 µg/L
Bromomethane	0/38	10.0	0.0	10.0/10.0 µg/L
Carbon disulfide	0/8	5.0	0.0	5.0/5.0 µg/L
Carbon tetrachloride	0/38	5.0	0.0	5.0/5.0 µg/L
Chlorobenzene	0/38	5.0	0.0	5.0/5.0 µg/L
Chloroethane	0/38	10.0	0.0	10.0/10.0 µg/L
Chloroethene	0/62	10.0	0.0	10.0/10.0 µg/L
2-Chloroethyl vinyl ether	0/18	10.0	0.0	10.0/10.0 µg/L
Chloroform	0/38	5.0	0.0	5.0/5.0 µg/L
Chloromethane	0/42	10.0	0.0	10.0/10.0 µg/L
Chloroprene	0/4	5.0	0.0	5.0/5.0 µg/L
Dibromochloromethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,2-Dibromo-3-chloropropane	0/4	5.0	0.0	5.0/5.0 µg/L
1,2-Dibromoethane	0/4	5.0	0.0	5.0/5.0 µg/L
Dibromomethane	0/4	5.0	0.0	5.0/5.0 µg/L
1,4-Dichlorobenzene	0/4	5.0	0.0	5.0/5.0 µg/L
trans-1,4-Dichloro-2-butene	0/4	20.0	0.0	20.0/20.0 µg/L
Dichlorodifluoromethane	1/4	7.86	4.29	1.42/10.0 µg/L
1,1-Dichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,2-Dichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,1-Dichloroethylene	0/46	5.0	0.0	5.0/5.0 µg/L
1,2-Dichloroethylene	0/7	5.0	0.0	5.0/5.0 µg/L
cis-1,2-Dichloroethylene	0/24	5.0	0.0	5.0/5.0 µg/L
trans-1,2-Dichloroethylene	0/39	5.0	0.0	5.0/5.0 µg/L
Dichloromethane	4/38	6.76	3.77	4.86/18.8 µg/L
1,2-Dichloropropane	0/38	5.0	0.0	5.0/5.0 µg/L
cis-1,3-Dichloropropene	0/38	5.0	0.0	5.0/5.0 µg/L
trans-1,3-Dichloropropene	0/38	5.0	0.0	5.0/5.0 µg/L
Ethylbenzene	0/38	5.0	0.0	5.0/5.0 µg/L
2-Hexanone	0/8	10.0	0.0	10.0/10.0 µg/L
Iodomethane	0/4	5.0	0.0	5.0/5.0 µg/L
Isobutyl alcohol	0/4	100	0.0	100/100 µg/L
Methacrylonitrile	0/4	10.0	0.0	10.0/10.0 µg/L
Methyl ethyl ketone	0/8	10.0	0.0	10.0/10.0 µg/L
Methyl isobutyl ketone	0/8	10.0	0.0	10.0/10.0 µg/L
Methyl methacrylate	0/4	10.0	0.0	10.0/10.0 µg/L
Propionitrile	0/4	50.0	0.0	50.0/50.0 µg/L
Styrene	0/8	5.0	0.0	5.0/5.0 µg/L
1,1,1,2-Tetrachloroethane	0/4	5.0	0.0	5.0/5.0 µg/L
1,1,2,2-Tetrachloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
Tetrachloroethylene	0/62	5.0	0.0	5.0/5.0 µg/L
Toluene	5/38	4.67	0.89	1.83/5.0 µg/L
1,1,1-Trichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
1,1,2-Trichloroethane	0/38	5.0	0.0	5.0/5.0 µg/L
Trichloroethylene	1/62	4.95	0.39	1.93/5.0 µg/L
Trichlorofluoromethane	2/34	4.69	1.02	1.23/5.0 µg/L
1,2,3-Trichloropropane	0/4	5.0	0.0	5.0/5.0 µg/L
Vinyl acetate	0/8	10.0	0.0	10.0/10.0 µg/L
Xylenes	0/38	5.0	0.0	5.0/5.0 µg/L

† Number of times analyte was detected compared to the total number of trip blanks for the analyte.

### Quality Control Samples



Note: If the analyte was not detected in the trip blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 72. Analytes Detected in Trip Blanks for ML

Analyte	Frequency of Detection†	Mean Result	Standard Deviation	Minimum/Maximum Results
<b>EPA8260B</b>				
Acetone	1/8	9.31	1.94	4.51/10.0 µg/L
Benzene	0/8	1.0	0.0	1.0/1.0 µg/L
Bromodichloromethane	0/8	1.0	0.0	1.0/1.0 µg/L
Bromoform	0/8	1.0	0.0	1.0/1.0 µg/L
Bromomethane	0/8	1.0	0.0	1.0/1.0 µg/L
Carbon disulfide	1/8	4.47	1.51	0.74/5.0 µg/L
Carbon tetrachloride	0/8	1.0	0.0	1.0/1.0 µg/L
Chlorobenzene	0/8	1.0	0.0	1.0/1.0 µg/L
Chloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
Chloroethene	0/8	1.0	0.0	1.0/1.0 µg/L
Chloroform	0/8	1.0	0.0	1.0/1.0 µg/L
Chloromethane	0/8	1.0	0.0	1.0/1.0 µg/L
Dibromochloromethane	0/8	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
1,2-Dichloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
1,1-Dichloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
1,2-Dichloroethylene	0/5	1.0	0.0	1.0/1.0 µg/L
cis-1,2-Dichloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
trans-1,2-Dichloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
Dichloromethane	2/8	8.32	3.31	1.17/10.0 µg/L
1,2-Dichloropropane	0/8	1.0	0.0	1.0/1.0 µg/L
cis-1,3-Dichloropropene	0/8	1.0	0.0	1.0/1.0 µg/L
trans-1,3-Dichloropropene	0/8	1.0	0.0	1.0/1.0 µg/L
Ethylbenzene	0/8	1.0	0.0	1.0/1.0 µg/L
2-Hexanone	0/8	5.0	0.0	5.0/5.0 µg/L
Methyl ethyl ketone	0/8	5.0	0.0	5.0/5.0 µg/L
Methyl isobutyl ketone	0/8	5.0	0.0	5.0/5.0 µg/L
Styrene	0/8	1.0	0.0	1.0/1.0 µg/L
1,1,2,2-Tetrachloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
Tetrachloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
Toluene	0/8	1.0	0.0	1.0/1.0 µg/L
1,1,1-Trichloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
1,1,2-Trichloroethane	0/8	1.0	0.0	1.0/1.0 µg/L
Trichloroethylene	0/8	1.0	0.0	1.0/1.0 µg/L
Vinyl acetate	0/8	5.0	0.0	5.0/5.0 µg/L
Xylenes	0/8	1.0	0.0	1.0/1.0 µg/L

† Number of times analyte was detected compared to the total number of trip blanks for the analyte.

Note: If the analyte was not detected in the trip blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.



Table 73. Analytes Detected in Equipment Blanks for WA

Analyte	Frequency of Detection†	Mean Result	Standard Deviation	Minimum/Maximum Results
<b>EPA6010B</b>				
Arsenic, total recoverable	0/1	42.0	—	42.0/42.0 µg/L
Lead, total recoverable	0/1	24.0	—	24.0/24.0 µg/L
<b>EPA8260B</b>				
Acetone	1/1	49.0	—	49.0/49.0 µg/L
Benzene	0/1	5.0	—	5.0/5.0 µg/L
Bromodichloromethane	0/1	5.0	—	5.0/5.0 µg/L
Bromoform	0/1	5.0	—	5.0/5.0 µg/L
Bromomethane (Methyl bromide)	0/1	10.0	—	10.0/10.0 µg/L
Carbon disulfide	0/1	5.0	—	5.0/5.0 µg/L
Carbon tetrachloride	0/1	5.0	—	5.0/5.0 µg/L
Chlorobenzene	0/1	5.0	—	5.0/5.0 µg/L
Chloroethane	0/1	10.0	—	10.0/10.0 µg/L
Chloroethene (Vinyl chloride)	0/6	10.0	0.0	10.0/10.0 µg/L
Chloroform	0/1	5.0	—	5.0/5.0 µg/L
Chloromethane (Methyl chloride)	0/2	10.0	0.0	10.0/10.0 µg/L
Dibromochloromethane	0/1	5.0	—	5.0/5.0 µg/L
1,1-Dichloroethane	0/1	5.0	—	5.0/5.0 µg/L
1,2-Dichloroethane	0/1	5.0	—	5.0/5.0 µg/L
1,1-Dichloroethylene	0/2	5.0	0.0	5.0/5.0 µg/L
1,2-Dichloroethylene	0/1	5.0	—	5.0/5.0 µg/L
cis-1,2-Dichloroethylene	0/5	5.0	0.0	5.0/5.0 µg/L
trans-1,2-Dichloroethylene	0/1	5.0	—	5.0/5.0 µg/L
Dichloromethane (Methylene chloride)	0/1	5.0	—	5.0/5.0 µg/L
1,2-Dichloropropane	0/1	5.0	—	5.0/5.0 µg/L
cis-1,3-Dichloropropene	0/1	5.0	—	5.0/5.0 µg/L
trans-1,3-Dichloropropene	0/1	5.0	—	5.0/5.0 µg/L
Ethylbenzene	0/1	5.0	—	5.0/5.0 µg/L
2-Hexanone	0/1	10.0	—	10.0/10.0 µg/L
Methyl ethyl ketone	1/1	21.2	—	21.2/21.2 µg/L
Methyl isobutyl ketone	0/1	10.0	—	10.0/10.0 µg/L
Styrene	0/1	5.0	—	5.0/5.0 µg/L
1,1,2,2-Tetrachloroethane	0/1	5.0	—	5.0/5.0 µg/L
Tetrachloroethylene	0/6	5.0	0.0	5.0/5.0 µg/L
Toluene	0/1	5.0	—	5.0/5.0 µg/L
1,1,1-Trichloroethane	0/1	5.0	—	5.0/5.0 µg/L
1,1,2-Trichloroethane	0/1	5.0	—	5.0/5.0 µg/L
Trichloroethylene	0/6	5.0	0.0	5.0/5.0 µg/L
Vinyl acetate	0/1	10.0	—	10.0/10.0 µg/L
Xylenes	0/1	5.0	—	5.0/5.0 µg/L

Notes: A value of 0 is reported as 0.0.

If the analyte was not detected in the trip blank(s), detection limit information appears in the *Mean Result* and *Minimum/Maximum Results* columns.

Table 74. Bailed Wells

Well	Date	Well	Date
ARP 8D	04/09/01	ARP 10D	04/10/01
ARP 11D	04/10/01	ARP 9D	04/09/01

## Quality Control Samples



Table 75. Sampled Wells with Metal Casings

<b>Well</b>	<b>Casing</b>
LFP 1WP	Stainless steel
LFP 2WP	Stainless steel
LFP 4WP	Stainless steel
LFP 5WP	Stainless steel
LFP 6WP	Stainless steel
LFP 10WP	Stainless steel
LFP 11WP	Stainless steel
LFP 12WP	Stainless steel
LFP 13WP	Stainless steel
LFP 14WP	Stainless steel
RWM 1	Carbon steel
RWM 3	Carbon steel
RWM 4	Carbon steel
RWM 5	Carbon steel
RWM 6	Carbon steel
RWM 7	Carbon steel
RWM 8	Carbon steel
RWM 9	Carbon steel
RWM 10	Carbon steel
RWM 11	Carbon steel
RWM 13B	Carbon steel
RWM 13C	Carbon steel
RWM 14B	Carbon steel
RWM 14C	Carbon steel
RWM 15B	Carbon steel
RWM 17B	Stainless steel
RWM 17D	Carbon steel
TNX 16D	Stainless steel
TNX 26D	Stainless steel

Table 76. Wells That Had Turbidity Greater Than 15 NTU

<b>Well</b>	<b>Date</b>	<b>Results (in NTU)</b>
ARP 8D	04/09/01	927
ARP 9D	04/09/01	824
ARP 10D	04/10/01	50.2
ARP 11D	04/10/01	59.6
ARP 12B1	04/03/01	74.4
ARP 12C1	04/03/01	474
ARP 14C1	04/04/01	17.7
BSW 1C1	05/25/01	291
BSW 1C1	06/06/01	696
BSW 1C2	05/22/01	1,000
BSW 1C3	05/16/01	1,000
BSW 1C4	05/23/01	381
BSW 1D1	05/22/01	531
BSW 1D2	05/23/01	52.9
BSW 1D2	06/06/01	100
BSW 2C1	05/11/01	1,000
BSW 2C2	05/11/01	643
BSW 2C3	05/14/01	643
BSW 2D2	05/14/01	1,000
BSW 3D2	05/10/01	25.2
BSW 4C1	05/15/01	1,000
BSW 4C2	05/14/01	85.1

### Quality Control Samples



<b>Well</b>	<b>Date</b>	<b>Results (in NTU)</b>
BSW 4D2	05/16/01	86.4
BSW 4D3	06/05/01	109
BSW 5C1	05/21/01	17.0
BSW 5D1	05/23/01	345
BSW 5D2	05/22/01	48.7
BSW 5D3	05/22/01	269
BSW 6C1	06/04/01	33.4
BSW 6C2	06/04/01	83.0
BSW 6C3	06/04/01	311
BSW 6C4	06/05/01	38.0
BSW 6D3	06/04/01	261
BSW 7C1	05/17/01	605
BSW 7C2	05/17/01	318
BSW 7C3	05/17/01	918
BSW 7C4	05/24/01	58.9
BSW 7D2	06/05/01	500
BSW 7D3	06/05/01	27.5
BSW 8C1	06/06/01	288
BSW 8C2	05/30/01	350
BSW 8C3	05/30/01	1,000
BSW 8C4	05/30/01	1,000
BSW 8D1	05/30/01	334
BSW 8D2	06/06/01	21.0
BSW 8D3	06/06/01	15.3
DCB 30	06/05/01	51.7
DWP 5	06/28/01	112
FSB121DR	05/01/01	46.1
KDB 1	05/31/01	57.1
LFP 2WP	06/28/01	27.5
LFP 5WP	06/25/01	1,000
LFP 6WP	06/26/01	250
LFP 13WP	06/28/01	34.0
LFP 14WP	06/26/01	256
MCB 21C2	06/16/01	29.7
MSB 23TB	05/24/01	41.6
MSB 42TB	05/21/01	26.9
MSB 42TB	05/23/01	53.7
MSB 52TA	05/22/01	17.0
MSB 52TB	05/22/01	35.8
MSB 52TB	05/25/01	43.5
MSB 86TB	05/16/01	48.8
MSB 86TB	05/25/01	30.0
MSB 93TA	05/23/01	24.9
MSB 93TB	05/23/01	18.9
SRW 18	05/15/01	19.3

*Table 77. Analyses Not Performed by GE*

<b>Well</b>	<b>Analyte</b>	<b>Reason</b>
CMB 11, 32I, 33I, 36I	All analyses	Canceled—laboratory did not receive sample
CMB 2I	PCBs	Canceled—well went dry
CMB 6I, 16I, 21I, 22I, 23I, 24I, 25I, 27I, 28I, 31I, 32I	Herbicides, PCBs	Canceled—well went dry
CMB 7I, 35I	Herbicides	Canceled—well went dry
CMB 27I	Herbicides	Canceled—limited sample volume
CMB 31I, 34I, 35I	Herbicides, PCBs	Canceled—limited sample volume
CMB 36I	Herbicides	Canceled—insufficient sample volume

### *Quality Control Samples*



<b>Well</b>	<b>Analyte</b>	<b>Reason</b>
CMP 12A, 14B, 14D, 31B, 32B, 33D, 44D	Pesticides	Laboratory did not send results
CMP 15C	Pesticides, herbicides	Laboratory did not send results
CMP 34D	All analyses	Canceled—laboratory did not receive sample
DBP 3	Octachlorodibenzo-p-dioxin	Laboratory did not send results
DCB 10	Cyanide	Canceled by WSRC due to improper preservation
DCB 55	Gross alpha, nonvolatile beta	Laboratory did not send results
FBI 1D, 2D, 3D, 4D, 5D, 7D, 8D, 9D	Dissolved metals	Canceled—bottles not labeled "field filtered;" only total metals were analyzed
FBI 6D	Bis(2-ethylhexyl) phthalate, phenol, tritium	Canceled—broken bottles
FBI 6D, 9D, 11D	Americium-242, curium-242, curium-243/244, curium-245/246	Laboratory did not send results
FBI 11D	Bis(2-ethylhexyl) phthalate, GCMS volatiles, phenols, tritium	Canceled—broken bottle
FEX 11	Curium-242	Laboratory did not send results
FSB 78	Bis(2-ethylhexyl) phthalate, phenol, tritium	Canceled—broken bottle
FSB 78C, 95DR	Bis(2-ethylhexyl) phthalate, GCMS volatiles, phenols, tritium	Canceled—broken bottle
FSB 78C, 95DR	Curium-243/244	Laboratory did not send results
FSB 94C	Bis(2-ethylhexyl) phthalate, phenol, tritium	Canceled—broken bottles
FSB 95CR	Phenol, tritium	Canceled—broken bottle
LFW 43B, 58D	Appendix IX volatiles, 1,4-dichlorobenzene	Canceled—laboratory did not receive vials for volatile analyses

*Table 78. Analyses Not Performed by WA*

<b>Well</b>	<b>Analyte</b>	<b>Reason</b>
BGO 3DR	Total organic halogens	Canceled—broken container
BGO 27D	Dissolved metals	Canceled—laboratory did not receive bottles
	Total organic carbon	Canceled—broken bottle
BSW 1C1	Total organic carbon, total organic halogens	Canceled—broken bottles
BSW 1D2	GCMS volatiles, total organic carbon, xylenes	Canceled—broken bottles



NOTES



# Site Index

Table 79 provides information about sites, locations, and well series. Some locations were not available.

*Table 79. Sites and Locations by Well Series*

<b>Well Series</b>	<b>Site</b>	<b>Location</b>
ABP	A-Area Metals Burning Pit	South of the burning/rubble pits
ABW	A Area near Firing Range	North of Road D-1 and east of Road 1-7
AC	A-Area Cluster Perimeter Wells and M-Area Plume Definition Wells	
ACB	A-Area Coal Pile Runoff Containment Basin	Southeast of A Area
AMB	Metallurgical Laboratory Seepage Basin	At the eastern edge of A Area
AMP	A-Area Rubble Pile	
AOB	Motor Shop Oil Basin	At the south edge of A Area near NPDES Outfall A-14
ARP	A-Area Burning/Rubble Pits and A-Area Ash Pile	West of Road D, south of A Area
AS	Injection Wells of the C-Area Reactor	
ASB	Savannah River Laboratory Seepage Basins	Across the road from the Savannah River Technology Center (formerly the Savannah River Laboratory)
BGO	Burial Grounds Perimeter	Southern E Area
BGX	E-Area Vaults near the Burial Grounds	Northern E Area
BRD	Road A Chemical Basin (Baxley Road)	East of D Area
BRR	Burma Road Rubble Pit	Southwest of F Area
BSE	Multiscreened Wells for the Burial Ground Complex Southeast Plume Area	Southeast edge of the Old Burial Ground
BTP	Characterization Piezometers for the Proposed Sanitary Landfill	Site B, off Road E-2
CBR	N-Area (Central Shops) Burning/Rubble Pit south of the Ford Building Seepage Basin	Southeast of N Area
CCB	C-Area Coal Pile Runoff Containment Basin	Southeast of C Area
CDB	C-Area Disassembly Basin	Near the C-Area reactor building
CDS	108-3C Bioremediation Facility	Near the C-Area reactor building
CMP	Chemicals, Metals, and Pesticides Pits	West of Road C, approximately two miles southeast of N Area
CRP	C-Area Burning/Rubble Pit	Southeast of N Area
CSA	Hydrofluoric Acid Spill Area	South of Road 3 in N Area
CSB	C-Area Reactor Seepage Basins	Southern C Area, west of the reactor building
CSD	N-Area (Central Shops) Diesel Spill	Southwest of N Area
CSL	N-Area (Central Shops) Sludge Lagoon	
CSO	Fire Department Training Facility	Southeast portion of N-Area
CSR	N-Area (Central Shops) Burning/Rubble Pits	North of N Area
DBP	D-Area Burning/Rubble Pits	Western portion of D Area
DCB	D-Area Coal Pile Runoff Containment Basin and Ash Basins	South (containment basin) and southwest (ash basins) of D Area
DOB	D-Area Oil Seepage Basin	North of D Area
DOL	D-Area Oil Seepage Basin	North of D Area
FAB	Surrounding the 288-1F Ash Basin	East of F Area and south of the F-Area acid/caustic basin
FAL	F-Area A Line	Adjacent to the F-Area canyon building
FBP	F-Area Burning/Rubble Pits	North of Road C and west of F Area
FCA	F-Area Canyon Building	Central F Area
FCB	F-Area Coal Pile Runoff Containment Basin	Southeast of F Area
FET	F-Area Effluent Treatment Cooling Water Basin	South of F Area



<b>Well Series</b>	<b>Site</b>	<b>Location</b>
FEX	F-Area Seepage Basins Groundwater Remediation, Hot Spot Extraction Wells	
FIN	F-Area Seepage Basins Groundwater Remediation, Hot Spot Injection Wells	South of Road C
FIW	F-Area Seepage Basins	Southwest portion of F Area
FNB	Old F-Area Seepage Basin	North of F Area
FOB	F-Area Seepage Basins	West-southwestern edge of F Area
FRB	F-Area Retention Basin	
FSB	F-Area Seepage Basins	South of Road C; east of Road C-4
FSL	F-Area Inactive Process Sewer Line	South of Road C; east of Road C-4
FSS	F-Area Sludge Land Application Site	
FST	Savannah River Ecology Laboratory Flowing Springs Site	Adjacent to Aquatic Ecology Laboratory (Road C)
FTF	F-Area Tank Farm	
GBW	Background Well near Hawthorne Fire Tower	West of Road 2-1.1F
HAA	H-Area Tank Farm Groundwater Operable Unit	
HAP	H-Area Auxiliary Pump Pit	At the east end of H Area near the coal pile runoff containment basin
HCA	H-Area Canyon Building	
HCB	H-Area Coal Pile Runoff Containment Basin	East of H Area
HET	H-Area Effluent Treatment Cooling Water Basin	Southwest of H Area
HEX	H-Area Seepage Basins Groundwater Remediation, Hot Spot Extraction Wells	East of Road 4
HHP	HP-52 Outfall Area and Warners Pond	
HIN	H-Area Seepage Basins Groundwater Remediation, Hot Spot Injection Wells	South of Road E
HIW	H-Area Injection Wells	Near the H-Area seepage basins
HMD	Hazardous Waste/Mixed Waste Disposal Facility	Northwest of the burial ground expansion
HR3	Old H-Area Retention Basin	Southeast of the intersection of Roads 4 and E
HR8	H-Area Retention Basin	Southeast of the intersection of Roads 4 and E
HSB	H-Area Seepage Basins	Southwest of H Area and the intersection of Roads 4 and E
HSL	H-Area Inactive Process Sewer Line	Extends from the southwest portion of H Area to north of the H-Area seepage basins
HSS	H-Area Sludge Land Application Site	Southeast of H Area
HTF	H-Area Tank Farm	At the south end of H Area
HWP	Warner's Pond and HP-52 Outfall	
HWS	Hazardous Waste Storage Facility	Northwest of N Area
HXB	Ford Building Seepage Basin	In the southeast portion of N Area
IDB	Interim Waste Technology Site Characterization Wells, Site B	Two miles northeast of H Area
IDP	Interim Waste Technology Site Characterization Wells, Site P	South of B Area and north of Highway 125
IDQ	Interim Waste Technology Site Characterization Wells, Site Q	Adjacent to Site P, South of B Area and north of Highway 125
KAB	K-Area Ash Basin	Southwest of K Area
KBP	K-Area Bingham Pump Outage Pit	
KCB	K-Area Coal Pile Runoff Containment Basin	West of K Area, between the K-Area ash basin and reactor seepage basin
KDB	K-Area Disassembly Basin	
KDT	K-Area Diesel Tank	Central K Area, north of the disassembly basin
KRB	K-Area Retention Basin	Northwest of K Area
KRP	K-Area Burning/Rubble Pit	
KSB	K-Area Reactor Seepage Basin	West of K Area
KSM	K-Area Tritium Sump	Near the K-Area process water storage tank
KSS	K-Area Sludge Land Application Site	Southeast of K Area
LAC	L-Area Acid/Caustic Basin	



<b>Well Series</b>	<b>Site</b>	<b>Location</b>
LAW	L-Area Research Wells	North of Road B and east of Road B-2.13
LBP	L-Area Bingham Pump Outage Pit	
LCO	L-Area Oil and Chemical Basin	South of L Area
LDB	L-Area Disassembly Basin	
LDS	108-3L Bioremediation Facility	
LFW	Sanitary Landfill	South of Road C
LRP	L-Area Burning/Rubble Pit	Northwest of L Area
LSB	L-Area Reactor Seepage Basin	Southeast of L Area, adjacent to the L-Area oil and chemical basin
MCB	Miscellaneous Chemical Basin	West of Road D near the A-Area metals burning pit
MSB	M-Area Hazardous Waste Management Facility (HWMF) and M-Area Plume Definition Wells	South of A Area and M Area and west of Road D (HWMF)
NBG	Wells between the F-Area Canyon Building and the Naval Fuel Material Facility	Between the canyon building and the Naval Fuel Material Facility
P	SRS Baseline Hydrogeologic Investigation Observation Well Clusters B-Area Microbiology Wells (P 29 Cluster) East of H-Area Perimeter Fence (P 27 Cluster) R-Area Bedrock Exploration Hydrology Wells (P 20 Cluster) T-Area (TNX) Background Wells (P 26 Cluster)	East of the H-Area perimeter fence
PB	L-Area Cooling Pond Dam Piezometers	
PBP	P-Area Bingham Pump Outage Pit	
PCB	P-Area Coal Pile Runoff Containment Basin	Southeast of the coal pile and south of P Area
PDB	P-Area Disassembly Basin	
PRP	P-Area Burning/Rubble Pit	West of P Area
PSB	P-Area Reactor Seepage Basins	Southwest of the reactor building
PSS	Par Pond Sludge Land Application Site	South of PAR Pond
PW	Production Wells	
RAC	R-Area Acid/Caustic Basin	South of R Area, just south of Road G
RBP	R-Area Bingham Pump Outage Pit	
RBW	R-Area Reactor Seepage Basins	Northwest of R Area
RCP	R-Area Coal Pile	West of the R-Area reactor building
RDB	R-Area Disassembly Basin	
RPC	R-Area Reactor Seepage Basins	Northwest of R Area
RRP	R-Area Burning/Rubble Pits	Southeast of R Area and Road G
RSA	Series A, R-Area Reactor Seepage Basins	Northwest of R Area
RSB	Series B, R-Area Reactor Seepage Basins	Northwest of R Area
RSC	Series C, R-Area Reactor Seepage Basins	Northwest of R Area
RSD	Series D, between R-Area Reactor Seepage Basin and R-Area Disassembly Basin	Northwest of R Area
RSE	Series E, R-Area Reactor Seepage Basins	Northwest of R Area
RSF	Series F, R-Area Reactor Seepage Basins	Northwest of R Area
RSP	R-Area Reactor Seepage Basins	Northwest of R Area
RWM	M-Area Recovery Wells	
SBG	S-Area Defense Waste Processing Facility	
SCA	S-Area Vitrification Building	
SLP	S-Area Low-Point Pump Pit	At the south end of S Area
SRW	Silverton Road Waste Site	South of Silverton Road
SSM	M-Area Southern Sector	
TBG	T-Area Burying Ground	Within the T-Area fence
TCM	TNX Permeable Wall Demonstration Well Installation	
TIR	TNX Intrinsic Remediation Piezometers	
TNX	TNX-Area Assessment Wells	
TRW	TNX-Area Test Recovery Wells	



<b>Well Series</b>	<b>Site</b>	<b>Location</b>
XSB	New T-Area (TNX) Seepage Basin	In the southwest corner of T Area
YSB	Old T-Area (TNX) Seepage Basin	In the east section of T Area, across Road A-4.7 miles from the TNX process area
YSC	Y-Area Waste Solidification and Disposal Facility	North of the intersection of Roads F and 4
ZBG	Z-Area Saltstone Facility	Southeastern S Area
ZDT	Z-Area Low-Point Drain Tank	

## SITE HISTORY

Geographical descriptions in the text are based on true north rather than SRS grid coordinates.

The following sections describe facilities at approximately 100 locations within designated areas at SRS. The sections are arranged in the following order:

- acid/caustic basins
- burning/rubble, rubble, and metals burning pits
- coal pile runoff containment basins, ash basins, and coal piles
- disassembly basins
- seepage and retention basins
- operating buildings and facilities
- plume monitoring
- radioactive waste storage and disposal facilities
- sanitary landfill and interim sanitary landfill
- sludge application sites
- other sites

## Acid/Caustic Basins

The acid/caustic basins in F Area, H Area, K Area, L Area, P Area, and R Area are unlined earthen pits (approximately 50 by 50 by 7 feet deep). These pits received dilute sulfuric acid and sodium hydroxide solutions used to regenerate ion-exchange units in power plant water purification processes at the reactor and separations areas in the center of SRS. The basins allowed mixing and neutralization of the dilute solutions before their discharge to nearby streams.

The basins were constructed between 1952 and 1955. They are uncovered, and most are dry except during periods of prolonged precipitation. The R-Area and L-Area basins were abandoned in 1964 and 1968, respectively. The other basins remained in service until 1982, when the water purification systems either were shut down or modernized. However, the H-Area basin continued to receive steam condensate from a hose box and drainage from a chemical pad until the basin was abandoned in 1985. During July through September 1993, the F-, H-, K-, and P-Area basins were dewatered, vegetation was removed and disposed of, the basins



were filled with compacted soil from the Burma Road clay pit, a grass cover was established, and the fences were reinstalled.

## Burning/Rubble, Rubble, and Metals Burning Pits

From 1951 to 1973, burnable wastes such as paper, wood, plastics, rubber, oil, degreasers, and drummed solvents were received and burned monthly in one or more of the burning/rubble pits in the following areas: A, C, D, F, K, L, N, P, and R. In 1973, waste no longer was burned at the pits, which were covered with a layer of soil. Rubble wastes including paper, wood, cans, concrete, and empty galvanized-steel barrels and drums then were disposed of in the pits until they reached capacity and were covered with soil. All burning/rubble pits were inactive by 1981, and all are covered except the R-Area pit, which has not been backfilled. Lithium-aluminum alloy, aluminum pieces, metal drums, other metal scraps, and plastic pipe were deposited and burned periodically in the A-Area metals burning pit, beginning about 1952. In 1974, the solid materials remaining on the site were covered with soil, and the pit was regraded. The site is inactive.

The Burma Road rubble pit consists of two excavated earthen pits that may contain paint cans, fluorescent light fixtures, metal, concrete, lumber, poles, and glass. Unknown quantities of refuse were deposited here from approximately 1973 through 1983. The pit is inactive and has been covered with soil.

## Coal Pile Runoff Containment Basins, Ash Basins, and Coal Piles

Electricity and steam at SRS are generated by burning coal. Coal piles originally existed in the following areas: A, C, D, F, H, K, L, P, and R. The facilities generally contained a 90-day reserve of coal that was not rotated. During long-term exposure to the environment, chemical and biological oxidation of sulfur compounds in coal resulted in the formation of sulfuric acid.

The R-Area coal pile was removed in 1964, and the L-Area coal pile was removed in 1968. To achieve compliance with the National Pollutant Discharge Elimination System (NPDES) permit issued in 1977, coal pile runoff containment basins in A Area and D Area were completed in October 1978, and basins in C Area, F Area, H Area, K Area, and P Area were completed in March 1981. The coal piles in C Area and F Area were removed in 1985. In 1991, the K-Area coal pile was reduced to a 2-inch base, and 75 percent of the P-Area coal pile was removed.

Currently, rainwater runoff from the remaining coal piles in A, D, H, K, and P Areas flows into the coal pile runoff containment basins via gravity flow ditches and sewers. The basins allow mixing of the runoff and its seepage into the subsurface, thus preventing the entry of large surges of low-pH runoff into surface streams. The basins in C and F Areas also still collect runoff, although no coal remains at either location. Ash sluice water from the D-Area and K-Area powerhouses has been discharged to the D-Area ash basins and the K-Area ash basin, respectively, since 1951.

### F-Area Ash Basin

The F-Area ash basin was monitored for the first time during second quarter 1994.

### R-Area Coal Pile

Two wells were installed in 1990 inside the boundaries of the former coal storage area, originally for groundwater assessment in relation to the R-Area coal pile.

## Disassembly Basins

The disassembly basins, also called fuel and target storage basins, are concrete-lined, open tanks of water next to the reactor rooms inside the reactor buildings in C, K, L, P, and R Areas. Irradiated assemblies (reactor fuel and target rods) were rinsed and stored in the basins prior to their shipment to the separations areas. Some radioactivity was transferred to the basin water from leaks in porous components and as a liquid or oxide corrosion film on the irradiated components.



Sand filters were used to remove radioactive particulates from the disassembly basin water. The filtered water was circulated through deionizers to remove additional constituents and was purged periodically through regenerated deionizers to the reactor seepage basins.

## Seepage and Retention Basins

Seepage, retention, and settling basins have been used at SRS to store or dispose of wastewater from various operations. Seepage and retention basins in the following areas are monitored: A, C, F, H, K, L, M, N, P, R, T, and the Savannah River Laboratory.

### C-Area Reactor Seepage Basins

These basins have received low-level radioactive purge water from the disassembly basin since 1957.

### F-Area Seepage Basins and Inactive Process Sewer Line

Beginning in 1955, the F-Area seepage basins received F-Area wastewater containing low-level radioactivity and chemicals, including chromium, mercury, nitric acid, and sodium hydroxide. Clay caps were completed in 1991 when the basins were closed.

### Ford Building Seepage Basin

The Ford Building seepage basin received low-level radioactive wastewater from Ford Building operations (repairing heat exchangers) from 1964 to January 1984.

### H-Area Retention Basins

A small, unlined earthen retention basin (the old H-Area retention basin) was used from 1955 to 1973 to provide temporary emergency storage for cooling water from the chemical separations process that contained radio-nuclides and possible trace quantities of chemicals.

A larger, rubber-lined retention basin replaced the original basin in 1973 and still is in use for receipt of diverted cooling water or tank farm stormwater runoff.

### H-Area Seepage Basins and Inactive Process Sewer Line

Starting in 1955, the H-Area seepage basins received wastewater from H Area containing low-level radioactivity and chemicals, including nitric acid, mercury, and sodium hydroxide. Basin 3 has been inactive since 1962. Basins 1, 2, and 4 operated from 1980 until they were taken out of service in the fourth quarter of 1988. Clay caps were completed early in 1991 when the basins were closed.

### K-Area Reactor Seepage Basin

This basin has received low-level radioactive purge water from the disassembly basin since 1957.

### L-Area Reactor Seepage Basin

This basin has received low-level radioactive purge water from the disassembly basin since 1957.

### M-Area Hazardous Waste Management Facility

The unlined M-Area settling basin, in operation from 1958 until 1985, received wastewater containing metal-cleaning solvents, depleted uranium, and other chemicals and metals from fuel fabrication processes in M Area. Because surface water flowed from this basin, it is classified as a settling basin rather than a seepage basin. Water from the basin flowed through an overflow ditch to Lost Lake, a shallow upland depression. A seepage area formed adjacent to the ditch and Lost Lake. The M-Area hazardous waste management facility comprises the settling basin, overflow ditch, seepage area, and Lost Lake. A closure cap was completed on the basin during 1989/1990.



Since the beginning of a full-scale recovery system for groundwater remediation in April 1985, groundwater flow has changed markedly near this facility, and changes over time in concentrations of analytes are difficult to interpret. See the **Plume Monitoring** section of this chapter for more information on remediation.

### Metallurgical Laboratory Seepage Basin

The Metallurgical Laboratory seepage basin received wastewater effluent from the Metallurgical Laboratory building from 1956 until 1985. Wastewater released to the basin consisted of small quantities (5 to 10 gallons per day) of laboratory wastes—mostly rinse water—from metallographic sample preparation (degreasing, cleaning, etching) and corrosion testing of stainless steel and nickel-based alloys. Noncontact cooling water (approximately 900 gallons per day) also was discharged. The basin has been dewatered, backfilled, and capped with low-permeability clay.

### New T-Area (TNX) Seepage Basin

The new TNX seepage basin replaced the old TNX seepage basin and operated from 1980 to 1988.

### Old F-Area Seepage Basin

The old F-Area seepage basin, the first seepage basin constructed in F Area, was used for disposal of wastewater from the canyon building from November 1954 until May 1955, when it was abandoned. During operation, the seepage basin received a variety of wastewaters, including evaporator overheads, laundry wastewater, and an unknown amount of chemicals. For three months in 1969, spent nitric acid solutions used to etch depleted uranium were discharged to the basin. In 1984, low-level contaminated water was released to the basin.

### Old T-Area (TNX) Seepage Basin

The old TNX seepage basin received waste from pilot-scale tests conducted at TNX from 1958 to 1980. In 1981, the basin wall was breached and the impounded water was drained into the adjacent wetlands. The basin then was backfilled with a sand and clay mixture, and the top was capped with clay.

### P-Area Reactor Seepage Basins

These basins have received low-level radioactive purge water from the P-Area disassembly basin since 1957.

### R-Area Reactor Seepage Basins

On November 8, 1957, an experimental fuel element failed during a calorimeter test in the emergency section of the R-Area disassembly basin. Following this incident, the original seepage basin received approximately 2,700 Ci of nonvolatile beta activity, including strontium-90 and cesium-137, each of which has a half-life of about 30 years. Much of the released radioactivity was contained in that basin, which was backfilled in December 1957. Five more basins were put into operation in 1957 and 1958 to assist in containing the radioactivity.

In 1960, Basins 2 through 5 were closed and backfilled. The ground surface above Basins 1 through 5 was treated with herbicide and covered with asphalt. In addition, a kaolinite cap and dike were constructed over and around Basin 1 and the northwest end of Basin 3 to minimize lateral movement of the radioactive contamination. Basin 6, which received water directly from the disassembly basin from 1960 until 1964, was backfilled in 1977.

### Savannah River Laboratory Seepage Basins

The Savannah River Laboratory seepage basins received low-level radioactive laboratory wastewater through underground drains until they were taken out of service in October 1982. Two basins were put into operation in 1954; one more was added in 1958 and another in 1960 to provide additional holding capacity.

An exception to the practice of discharging only low-level alpha or beta-gamma wastewater was made in 1971, when 0.68 Ci of curium from a leaking separator pit in the Savannah River Laboratory radioactive waste tanks was disposed of in the basins. Approximately 34 million gallons of wastewater were discharged to the basins during their operating life.



## Operating Buildings and Facilities

### Defense Waste Processing Facility (S-Area Vitrification Building)

The DWPF, also known as the S-Area vitrification building or S-Area canyon, contains the process and auxiliary equipment to incorporate high-level radioactive waste into leach-resistant glass. The facility began radioactive operations in 1996.

### F-Area Canyon Building and A-Line Uranium Recovery Facility

At the canyon building, irradiated product from the reactors is dissolved using nitric acid, and the desired radionuclides are separated from fission products. At the A-Line uranium recovery facility, adjacent to the canyon building, uranium oxide is produced from uranyl nitrate.

### F-Area Effluent Treatment Cooling Water Basin

The F-Area effluent treatment cooling water basin receives diverted cooling water from the separations processes. The cooling water is sent from the basin to the F-Area and H-Area effluent treatment facility (ETF) if contaminated or to a permitted outfall if uncontaminated. The ETF, on the south side of H Area, was placed in service in 1988 to treat wastewater formerly sent to the F-Area and H-Area seepage basins. In addition to cooling water, it also receives separations area stormwater runoff and condensed overheads from the evaporators in the tank farms. The treatment facility removes hazardous and radioactive contaminants from these low-level liquid wastes and concentrates them for immobilization as saltstone.

### H-Area Auxiliary Pump Pit

The H-Area auxiliary pump pit facility will pump high-level radioactive sludge and precipitate from the H-Area tank farm to the S-Area low-point pump pit en route to the vitrification facility. When the pumps are shut down, this facility will collect the solution in a temporary holding tank via gravity flow lines.

### H-Area Canyon Building

As in F Area, materials from the reactors are dissolved at the canyon building, and the desired radionuclides are separated from waste products.

### H-Area Effluent Treatment Cooling Water Basin

For more information, see the **F-Area Effluent Treatment Cooling Water Basin** section.

### K-Area Tritium Sump

A single well, installed in 1992, monitors the water table just west of the K-Area reactor. The well was placed near the K-Area process water storage tank, which stores water collected in sumps within the K-Area reactor building. Tritium activity in this sump water has been reported at greater than 5 Ci/mL.

### N-Area Hazardous Waste Storage Facility

Building 645-N of the hazardous waste storage facility has been in service since 1983, 645-2N since 1987, and 645-4N since 1984. Buildings 645-N and 645-4N contain hazardous waste, and building 645-2N contains mixed waste (a mixture of low-level radioactive waste and hazardous waste). Wastes are stored inside the buildings in drums placed on diked concrete floors designed to contain liquid spills.

### Naval Fuel Material Facility

The Naval Fuel Material Facility was used to produce HEU (highly enriched uranium) for naval reactors until shutdown in 1989. Monitoring wells in the NGB series are located between the canyon building and the Naval Fuel Material Facility.

### S-Area Facilities

S-Area contains several facilities for processing high-level radioactive waste from the F-Area and H-Area tank farms into borosilicate glass solidified within stainless steel canisters. The glass is stored temporarily in



specially designed storage buildings within S Area. Eventual permanent disposal is expected to be in an offsite federal geologic repository.

### S-Area Low-Point Pump Pit

The S-Area low-point pump pit receives high-level radioactive sludge and precipitate from the H-Area tank farm and pumps it to the defense waste processing facility (DWPF) vitrification building; it also receives waste being recycled from the vitrification building back to the tank farm. As at the H-Area auxiliary pump pit, when the pumps are shut down, the sludge and precipitate remaining in the line drain back into a temporary holding tank via gravity flow lines.

### Z-Area Low-Point Drain Tank

The Z-Area low-point drain tank facility receives low-level radioactive salt solution from the H-Area tank farm and pumps it to the Z-Area salt solution holding tank. When the H-Area pump is shut down, the low-point drain tank can collect the solution remaining in the lines via gravity flow.

### Z-Area Saltstone Manufacturing and Disposal Facility

The Z-Area saltstone manufacturing and disposal facility processes and permanently disposes of low-level radioactive salt solution supernatant from the underground storage tanks at F Area and H Area and from ETF concentrate.

The facility began radioactive operations in June 1990. In November 1992, a tank in the Z-Area saltstone manufacturing and disposal facility overflowed, and a portion of the liquid leaked from the building into a storm drain. Approximately 2 gallons of solution reached a drainage pipe that flows into a series of sedimentation basins and eventually into McQueen Branch. Sediment samples showed small amounts of cesium-137 exceeding those amounts observed in the Savannah River, but within the activity ranges in site streams.

## Plume Monitoring

### A Area and M Area

In addition to the groundwater monitoring conducted at specific locations in A Area and M Area, numerous plume definition wells also monitor a 5-square-mile area to assess the extent of volatile organic contamination. The first plume definition wells were installed soon after discovery of the contamination in June 1981.

The plume definition well network extends from the region north of SRTC, between Road 1 and the SRS boundary, south to wells near the miscellaneous chemical basin and the metals burning pit, and from Tims Branch in the east toward the Silverton Road waste site in the west. The plume encompasses approximately three square miles and consists primarily of trichloroethylene, tetrachloroethylene, and 1,1,1-trichloroethane.

### Separations and Waste Management Areas

A number of wells were installed in the separations areas in 1951 and 1952. These wells, which range from approximately 15 to 90 feet in depth, are used to measure water table elevations and monitor for radioactive constituents (gross alpha, nonvolatile beta, and tritium) in the groundwater in and around F Area and H Area. They have steel casings that could affect the metal concentrations in the water.

## Radioactive Waste Storage and Disposal Facilities

### Burial Grounds

The burial grounds have been used for storage and disposal of radioactive solid waste produced at SRS or shipped from other facilities since 1952. The original area, known as the old burial ground, contains low-level alpha and beta-gamma trenches, intermediate-level beta-gamma trenches, and alpha waste trenches. As the trenches were filled, they were covered with soil. When the old burial ground was filled in 1974, operations moved to the adjacent low-level radioactive waste disposal facility (LLRWDF).



The sections of the LLRWDF currently being operated, known as the Solid Waste Disposal Facility (SWDF), contain trenches for only radioactive waste. Concrete vaults, known as the E-Area vaults, have been constructed east and north of the LLRWDF for disposal of solid radioactive waste. The first waste was placed there in September 1994.

Mixed waste storage building 643/29E, within the boundaries of the LLRWDF, has been in use since March 1987. The adjacent mixed waste storage building, 643/43E, was completed in July 1995, and the facility began receiving waste later that same month.

Until 1965, transuranic (TRU) waste was placed in plastic bags and cardboard boxes and buried in earthen trenches. Between 1965 and 1974, lower level TRU waste was buried unencapsulated in trenches, and higher level TRU waste was buried in retrievable concrete containers or encapsulated in concrete. Since 1974, TRU wastes contaminated with greater than 0.01 Ci/g have been stored in watertight containers on concrete pads with monitoring sumps. TRU waste storage pads 149 are on the FFAs list of RCRA-regulated units.

Since mid-1984, newly generated low-level beta-gamma waste has been placed in metal boxes or metal drums. Currently, it is disposed of in engineered trenches and covered with at least 4 feet of soil. Some wastes that do not have forms that are easily placed in containers are disposed of in shallow land-burial slit trenches.

Mixed wastes stored or disposed of within the old burial ground and portions of the LLRWDF include cadmium, lead, mercury, and tritiated pump oil. Some of the waste is contained in welded stainless steel containers or metal drums and stored within concrete cylinders. Degraded radioactive organic solvents and tritiated pump oil have been stored in 22 underground storage tanks in the old burial ground. In addition, two areas of the old burial ground were used for incineration of solvents.

The burial ground complex, comprising the old burial ground, solvent storage tanks S01S22, and portions of the LLRWDF, is monitored by the following:

**Burial Ground Expansion (E-Area Vaults)** This site is located in the northern section of E Area and is monitored by the BGX well series.

**Hazardous Waste/Mixed Waste Disposal Facility** This site is northwest of the burial ground expansion and is monitored by the HMD well series.

**Old Burial Ground** The old burial ground is in the southern portion of E Area and is monitored by wells in the BG and BGO well series.

**Radioactive Waste Burial Ground** The LLRWDF, which includes the mixed waste management facility (MWMF), is monitored by wells in the BGO well series.

## Tank Farms

Liquid radioactive wastes are stored and processed at the tank farms, which comprise subsurface tanks containing high-level aqueous radioactive wastes in the form of sludges, supernatant liquid of varying salt concentrations, and saltcake. Approximately 129 million liters of waste are stored in the tanks.

The high-level liquid waste volume is reduced in the tank farm evaporators. Certain tanks are used for pretreatment of the wastes before they are processed at the DWPF into saltstone (low-level waste) or a glass form (high-level waste). As described earlier, saltstone manufacturing and disposal is ongoing; vitrification was tested during 1995, and the DWPF began production operations in 1996. Pretreatment processes at the tank farms include in-tank precipitation and extended sludge processing.

More information about the function of the tank farms may be found in previous sections of this chapter, including the discussions of the F-Area effluent treatment cooling water basin, the H-Area auxiliary pump pit, S Area, the S-Area low-point pump pit, the DWPF, the Z-Area low-point drain tank, and the Z-Area saltstone manufacturing and disposal facility.



Because of restrictions on the disposal of purge water, monitoring wells at the tank farms are bailed and not purged.

**F-Area Tank Farm**The F-Area tank farm comprises 22 subsurface tanks. In 1961, Tank 8 was overfilled, causing soil and possible groundwater contamination.

**H-Area Tank Farm**The H-Area tank farm comprises 29 subsurface tanks. In 1960, Tank 16 leaked an unknown quantity (a few tens of gallons to a few hundred gallons) of waste into the soil. The tanks remaining waste was removed by 1972.

Several other releases of waste from H-Area tanks have occurred, including a spill of approximately 100 gallons at Tank 13 in 1983. In 1989, approximately 500 pounds of volume-reduced waste leaked from a transfer line at Tank 37. The leak sites have been cleaned up or stabilized to prevent the spread of contamination. Both the F-Area and H-Area sites are being monitored for gross alpha, nonvolatile beta, and tritium.

## Sanitary Landfill and Interim Sanitary Landfill

The sanitary landfill began receiving waste from office, cafeteria, and industrial activities during 1974. Materials such as paper, plastics, rubber, wood, cardboard, rags, metal debris, pesticide bags, empty cans, carcasses, asbestos in bags, and sludge from the site's wastewater treatment plant are placed in unlined trenches and covered daily with soil or a fabric substitute. The original section of the landfill and its southern expansion, with a total area of approximately 54 acres, have been filled. Operations at the portion of approximately 16 acres known as the northern expansion, or the interim sanitary landfill, were discontinued in November 1994.

Sanitary landfills are intended to receive only nonradioactive, nonhazardous waste. However, until October 1992, some hazardous wastes (specifically, solvent-laden rags and wipes used for cleaning, decontamination, and instrument calibration) were buried in portions of the original 32-acre landfill and its southern expansion.

## Sludge Application Sites

These sites originally were the subject of a research program using domestic sewage sludge to reclaim borrow pits and to enhance forest productivity at SRS. In 1980, sludge was applied to the following application sites: K Area, Kato Road, Lower Kato Road, Orangeburg, PAR Pond, Road F, Sandy (Lucy), Second PAR Pond Borrow Pit, and 40-Acre Hardwood. After sludge was applied to the sites, hardwoods and pines were planted to quantify the effectiveness of the sludge as a fertilizer and soil conditioner.

Sludge from Aiken and Augusta municipal wastewater treatment plants was applied to the following sites: F Area, H Area, Kato Road, Lower Kato Road, Orangeburg, Road F, Sandy (Lucy), Second PAR Pond Borrow Pit, and 40-Acre Hardwood. Wastewater sludge was applied to the K Area and PAR Pond sites in 1981 and 1988. Revegetating of the sites is continuing.

In November 1993, groundwater monitoring was discontinued at the Kato Road, Lower Kato Road, Orangeburg, Road F, Sandy (Lucy), and 40-Acre Hardwood sites because they have not received applications of sewage sludge since 1981, and historical monitoring results show no impact from sludge applications. Monitoring was canceled after first quarter 1994.

### H-Area Sanitary Sludge Land Application Site

Sewage sludge from SRS sanitary wastewater treatment plants was disposed of at this 13-acre site southeast of H Area from November 1990 to May 1992.

### K-Area and PAR Pond Sludge Land Application Sites (Formerly K-Area Borrow Pit and PAR Pond Borrow Pit Sites)

In 1981, sludge from Aiken and Augusta municipal wastewater treatment plants was applied to the K-Area and PAR Pond borrow pits. In 1988, the N-Area sanitary sewage sludge lagoon was closed, and the lagoon sludge was applied to the K Area and PAR Pond borrow pits. In 1989, the K-Area location (now called the K-Area sludge land application site) was declared a RCRA/CERCLA unit because of the presence of chlordane in the lagoon sludge applied to the site.



## Other Sites

### B-Area Gas Station

Elevated benzene, which could be the result of old underground gasoline or diesel storage tanks, has been detected near B Area. EMS has inspected the area and believes there may be two underground storage tanks southeast of B Area. The first suspected tank appears to be at an abandoned gas station between Kato Road and Road C-2. The second appears to be an old diesel tank in front of a storage and laboratory facility.

### Baseline Hydrogeologic Investigation Observation Well Clusters

Wells in the P series that provide baseline hydrogeologic investigation data are located in numerous locations across SRS.

### Chemicals, Metals, and Pesticides Pits

The chemicals, metals, and pesticides pits were used from 1971 to 1979 to dispose of oil in drums, organic solvents, and small amounts of pesticides and metals. In 1984, the pits were excavated to form two trenches, backfilled, and capped. During excavation, most of the contaminated material (liquid in original drums, free liquid placed in drums during excavation, and contaminated soil) was moved to the hazardous waste storage facility.

### D-Area Oil Disposal Basin

The D-Area oil disposal basin was constructed in 1952 and received waste oil products from D Area that were unacceptable for incineration in the powerhouse boilers. These waste oils may have contained hydrogen sulfide, chlorinated organics, or other chemicals. In 1975, the oil basin was removed from service and backfilled with soil.

### Interim Waste Technology Site Characterization Wells

Characterization wells monitor interim waste technology sites B, L, Q, and P.

### K-Area Diesel Tank Spill

Following the discovery in 1989 of a leaking buried diesel supply line, most of the diesel-contaminated soil was removed from this area except where continued excavation would have jeopardized the structural integrity of an underground storage tank.

### L-Area Acid/Caustic Basin and L-Area Oil and Chemical Basin

From 1961 to 1979, the L-Area oil and chemical basin received small quantities of radioactive oil and chemical waste that could not be discharged to effluent streams, regular seepage basins, or the 200 Areas' waste management systems. The waste came from throughout SRS, primarily from the reactor areas and the contaminated-equipment workshop through a pipeline known to have leaked. The basin has been inactive since 1979.

### M-Area Recovery Wells

The RWM well series identifies the M-Area recovery wells. The first wells were installed in 1982 and 1983, with pumps added in 1985. Additional wells were installed in 1985, 1990, 1993, and 1996. The RWM wells pump contaminated groundwater to air strippers, which remove volatile organic compounds from the water before it is returned to the ground.

### Miscellaneous Chemical Basin

The miscellaneous chemical basin, in operation by 1956, was closed and graded in 1974. No records document the materials disposed of at this location. However, soil gas investigations revealed volatile organics in the near-surface soils at the basin. It is assumed that the site was used for disposal of waste solvents, liquid chemical wastes, and possibly waste oil. The basin is inactive.



## Motor Shop Oil Basin

This unlined basin was placed in service in 1977 to receive liquid effluent from the Motor Shop, including trace quantities of engine oil, grease, kerosene, ethylene glycol, and soap. All waste passed through an oil skimmer prior to discharge into the basin. All discharges to the basin were terminated in August 1983. The basin is inactive but collects rainwater during periods of heavy precipitation.

## N-Area Diesel Spill Hazardous Waste Storage Facility

The tanks have been filled with inert material, and the pipelines have been disconnected at this site.

## N-Area Fire Department Training Facility

The fire department training facility, also known as the N-Area burnable-oil basin, is a shallow pit surrounded by an 18-inch-high asphalt dike. It was used from 1979 to 1982 by the SRS Fire Department to train personnel in the use of firefighting equipment. After this time, the area was excavated and backfilled.

## N-Area Hydrofluoric Acid Spill

It is uncertain whether a spill occurred at the hydrofluoric acid spill area or if contaminated soil or containers were buried there. The spill or burial occurred prior to 1970, and an identification sign is the only evidence that material was released.

## Production Wells

The PW series wells are production wells scattered across SRS.

## Road A (Baxley Road) Chemical Basin

The Road A chemical basin is reported to have received miscellaneous radioactive and chemical aqueous waste, but no records of the materials disposed of at the basin are available. The basin was closed and backfilled in 1973. The BRD well series is being monitored for environmental-screening constituents only.

## Silverton Road Waste Site

The Silverton Road waste site, south of Silverton Road, was used for disposal of metal shavings, construction debris, tires, drums, tanks, and miscellaneous other items. The startup date is unknown, and no records of waste disposal activities were kept. Operations at this location ended in 1974, and the waste material is covered with soil and vegetation.

## TNX Burying Ground

The TNX burying ground was created to dispose of debris from an experimental evaporator that exploded at T Area in 1953. The buried material included contaminated conduit, tin, drums, structural steel, and depleted uranium. Although most of this material was excavated and sent to the LLRWDF between 1980 and 1984, an estimated 27 kg of uranyl nitrate remains buried at this location. See the **New TNX Seepage Basin** section for more information on the unit.



NOTES



# Glossary

Also see p. B-1 for abbreviations and qualifiers used in the results tables in **Appendix B**.

**2,4-D**. 2,4-Dichlorophenoxyacetic acid.

**absolute difference**. The unsigned result of the subtraction of any two numbers.

**accuracy**. The degree of agreement between an observed value and an accepted reference value or a measure of the over- or underestimation of reported concentrations.

**advisory range**. A range of acceptable analytical results established by the provider of known samples.

**aerated sample**. Groundwater sample supplied or charged with air. Aeration can occur naturally or during well pumping.

**aliquot**. A portion of a sample being used for analysis.

**analyte**. Analyzed constituent.

**analytical detection limit**. The lowest reasonably accurate concentration of an analyte that can be detected. This value varies depending on the method, instrument, and dilution used.

**APHA**. American Public Health Association.

**Appendix IX**. A list of constituents specified by Appendix IX in the *Code of Federal Regulations*, Title 40, Part 264 (EPA, 1999). Analysis for Appendix IX constituents is required by the Resource Conservation and Recovery Act (RCRA) under specified conditions.

**associated samples**. Samples analyzed by a laboratory in the same batch with field or laboratory blanks.

**ASTM**. American Society for Testing and Materials.

**bail**. To remove water from a well by lowering a container into the water, allowing it to fill with water, and removing it from the well.

**blank**. Aliquot of deionized water generated by laboratory or sampling personnel and analyzed like a groundwater sample. See **equipment blank**, **field blank**, **laboratory blank**, and **trip blank**.

**blank spike**. An organic-free water sample spiked with target analytes, extracted, and analyzed with the regular samples for organic parameters to monitor the performance of all steps in the analysis process.

**blind replicate**. A second sample taken from a well at the same time as the primary sample and sent to the laboratory for analysis as an unknown.

**BNA**. Base/neutral and acid extractables. Groups of organic compounds analyzed as part of the Appendix IX and Priority Pollutants suites; also, a group of compounds that can be analyzed by EPA Method 8270.

**Bq/L**. Becquerels per liter. A measurement of radioactivity.

**cation**. Positively charged ion.

**CERCLA**. Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as Superfund.



**certified value.** The known concentration of an analyte in a referenced sample.

**CFR.** *Code of Federal Regulations.* Sections of this annual document contain EPA standards and regulations for environmental monitoring.

**chain-of-custody record.** A form that documents the collection, transport, analysis, and disposal of well samples.

**common analyses.** Common parameters tested for, and generally found, in drinking water.

**comparability.** An evaluation made by confirming that the laboratories used the same standardized procedures for sample preparation and analysis, that the reporting units are the same, and that similar detection and quantitation limits were obtained.

**completeness.** An evaluation based on a comparison of the wells scheduled for sampling to the wells sampled, also a comparison of the requested analyses to the analytical data received.

**deionized water.** Water from which all charged species or ionizable organic and inorganic salts have been removed.

**detection limit.** See **analytical detection limit.**

**dilution factor.** The mathematical factor by which a sample is diluted to bring the concentration of an analyte in the sample within the analytical range of an instrument (e.g., 1 mL sample + 9 mL solvent = 1:10 dilution, or a dilution factor of 10).

**DL.** See **analytical detection limit.**

**DNAPL.** Dense nonaqueous phase liquid.

**DOE.** U.S. Department of Energy.

**drinking water standards.** Federal primary and secondary drinking water standards, as set forth by the EPA.

**duplicate.** Duplicate sample; an aliquot of a primary sample.

**duplicate result.** A result obtained from identical analyses performed on more than one aliquot of a primary sample.

**DWS.** See **drinking water standards.**

**E.** A code letter used in the analytical data tables that signifies exponential notation (e.g., 3.4E+03 =  $3.4 \times 10^3$  = 3,400).

**EM.** EPD/EMS Laboratory at SRS.

**EMS.** The Environmental Monitoring Section of the Environmental Protection Department at SRS.

**EMS code.** See **qualifier.**

**Environmental Physics.** Environmental Physics, Inc., of Charleston, SC (subcontractor for General Engineering).

**environmental-screening analyses.** A group of analyses that forms the core of the EPD/EMS Groundwater Monitoring Program each quarter. See the **Sample Scheduling** section of this report for a complete list of constituents.

**EPA.** U.S. Environmental Protection Agency.



**EPD.** Environmental Protection Department at SRS.

**EPD/EMS.** Environmental Protection Departments Environmental Monitoring Section at SRS.

**EQL.** See **estimated quantitation limit**.

**equipment blank.** A sample of deionized water that is opened at the sampling location and poured or pumped through the sampling device. Equipment blanks are used to identify possible contaminants in the sampling equipment.

**estimated quantitation limit (EQL).** The lowest concentration reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The EQL is generally 5× to 10× the method detection limit (MDL); however, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes, the EQL analyte concentration is selected as the lowest nonzero standard in the calibration curve.

**Fibers/L.** Fibers per liter. A unit of measurement for asbestos.

**field blank.** A sample container of deionized water sent to a laboratory under an alias as a quality control check.

**field qualifier.** See **sample interference field qualifier**. Due to space limitations, sample interference field qualifiers are referred to as *field qualifiers* in the analytical results tables in **Appendix B**.

**flagging criteria.** Criteria established to help determine the relative concentration and testing frequency for analytes. See the **Flagging Criteria** section of this report for further information.

**functional guideline code.** See **qualifier**.

**gamma PHA.** A group of analyses performed to determine activities of gamma-emitting radionuclides.

**GC.** See Gulf Coast.

**GC VOA.** Gas chromatographic volatile organics analyses. Also used to refer to a group of volatile organic compounds that can be analyzed by gas chromatography.

**GCMS VOA.** Gas chromatograph/mass spectrometer volatile organics analyses. Also used to refer to a group of volatile organic compounds analyzed by gas chromatography and mass spectrometry methods.

**GE.** See **General Engineering**.

**General Engineering.** General Engineering Laboratories of Charleston, SC.

**General Engineering Laboratories Mobile Laboratory.** The Mobile Laboratory, associated with General Engineering Laboratories of Charleston, SC.

**GP.** See **Environmental Physics**.

**Gulf Coast.** Gulf Coast of Chicago, IL (owned by Recra).

**halogen.** Any of the elements of the halogen family, which consists of fluorine, chlorine, bromine, iodine, and astatine.

**herbicides/pesticides.** A suite of analyses. See the **Sample Scheduling** section of this report for further information.

**holding time.** The length of time during which an analysis of a sample can be reliably performed. Holding times vary depending on which constituents are being analyzed.



**interlaboratory comparisons.** Comparisons conducted between two or more laboratories.

**intralaboratory comparisons.** Comparisons conducted within a single laboratory.

**ion.** An isolated electron or positron or an atom or molecule that has acquired a net electric charge by the loss or gain of one or more electrons.

**laboratory blank.** Deionized water or solvent sample generated by the laboratory. One blank is analyzed with each batch of samples as an in-house check of analytical procedures and equipment.

**laboratory control sample.** A deionized water sample that is spiked with the target analyte, digested, and analyzed with the regular samples for inorganic parameters to monitor the performance of all steps in the analysis process.

**major ions.** A group of analyses performed in the EPD/EMS Groundwater Monitoring Program to determine the concentrations of calcium, magnesium, potassium, and silica ions and the alkalinity of a sample.

**matrix spike.** A known quantity of a target analyte added to at least 5% of the samples prior to sample preparation to evaluate the effect of the sample matrix on the analytical procedure.

**MDL.** See **method detection limit**.

**mean.** The arithmetic mean; a single number that typifies a set of numbers.

**method detection limit (MDL).** A reproducible analyte- and method-specific detection limit: the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

**mg/L.** Milligrams per liter.

**μCi.** Microcurie; unit of radioactivity equivalent to  $3.7 \times 10^4$  disintegrations per second.

**μCi/mL.** Microcuries per milliliter.

**μg/L.** Micrograms per liter.

**μS/cm.** Microsiemens per centimeter, equivalent to micromhos per centimeter. The unit of conductance across two points, used as the measure of specific conductance in analytical data tables.

**Microseeps Laboratory.** Microseeps Inc., of Pittsburgh, PA

**ML.** See **General Engineering Laboratories Mobile Laboratory**.

**modifier.** See **qualifier**.

**MRD.** Mean relative difference. See the **Quality Control Samples** section of this report for further information.

**MS.** See **Microseeps Inc.**

**msl.** Mean sea level.

**NTU.** Nephelometric turbidity units. The standard unit of turbidity measurement.

**null hypothesis.** A statement, which can be tested statistically, of no difference in a characteristic of a population or distribution.



**organic.** A chemical compound based on carbon chains or rings and containing hydrogen with or without oxygen, nitrogen, or other elements.

**PCB.** Polychlorinated biphenyl.

**pCi.** Picocurie; a unit of radioactivity equivalent to  $3.7 \times 10^{-2}$  disintegrations per second.

**pCi/L.** Picocuries per liter.

**pCi/mL.** Picocuries per milliliter.

**piezometer.** An instrument used to measure the potentiometric surface of groundwater. Also, a well designed for this purpose.

**plume.** A volume of contaminated air or water originating at a point-source emission (e.g., a smokestack) or a waste source (e.g., a hazardous-waste disposal site).

**potentiometric surface.** The surface to which water in an aquifer would rise by hydrostatic pressure if unconfined.

**precision.** A measure of the repeatability of a measurement, evaluated from the results of duplicate samples and splits.

**primary laboratory.** A laboratory having a contract with EPD/EMS to perform a specific set of analyses; a primary laboratory may subcontract this work to other laboratories.

**purge.** To remove water from a well prior to sampling, generally by pumping or bailing. Under the EPD/EMS Groundwater Monitoring Program, two well volumes generally are purged before sampling.

**QA.** Quality assurance.

**QC.** Quality control.

**qualifier.** A code used to convey additional information about an analytical result. Also called a modifier. Specific types include functional guideline codes, STORET codes, and EMS codes. See **Appendix B** for additional information.

**radioisotopes.** Radioactive isotopes.

**radionuclide.** A nuclide at an unstable, high-energy level that seeks a more stable, low-energy level by emitting particles of energy. Through these emissions, the nuclear configuration decays to simpler nuclides.

**RCRA.** See **Resource Conservation and Recovery Act**.

**RCRA site.** Solid-waste management unit under RCRA regulation.

**RDL.** See **reference detection limit**.

**Recra LabNet Philadelphia.** Recra LabNet Philadelphia, of Lionville, PA.

**reference detection limit (RDL).** The detection limit chosen to allow comparison of several analyses with different detection limits. For the purposes of this report, the individual detection limits of at least 90% of the analyses are less than the reference detection limit. See the **Quality Control Samples** section of this report for further information.



**relative percent difference (RPD).** A commonly used estimate of precision when only two samples are available. Precision is the agreement among a set of replicate measurements without assumption of the true value. Precision is estimated by means of duplicate analyses.

**replicate.** Replicate sample. Used in this report to mean only those duplicate samples sent to the laboratory as unknowns. See **blind replicate**.

**representativeness.** The quality of exhibiting the average properties of the population being sampled.

**Resource Conservation and Recovery Act (RCRA).** Federal legislation that regulates the transport, treatment, and disposal of solid and hazardous wastes.

**RFI Program.** RCRA Facility Investigation Program. EPA-regulated investigation of a solid-waste management unit with regard to its potential impact on the environment.

**RFI/RI Program.** RCRA Facility Investigation/Remedial Investigation Program. At SRS, an expansion of the RFI Program that includes CERCLA and hazardous-substance regulations.

**RPD.** See **relative percent difference**.

**run date.** The calendar date denoting when an analysis is performed.

**sample interference field qualifier.** See also **field qualifier**. This describes interferences encountered during sample collection that could affect analytical results. It is used to qualify analytical data based on field condition.

**sample quantitation limit (SQL).** The sample-specific EQL, which is the EQL multiplied by factors of concentration, dilution, aliquot size, and percent solids.

**sample-specific EQL (ssEQL).** The EQL multiplied by factors of concentration, dilution, aliquot size, and percent solids. Also called the **SQL**.

**sample-specific MDL (ssMDL).** The MDL multiplied by factors of concentration, dilution, aliquot size, and percent solids. For radiological analyses it is known as the sample-specific minimum detectable concentration.

**sampling device.** Anything used in sampling, especially portable (nondedicated) pumps and bailers. Possible source of sample contamination if not cleaned thoroughly between uses.

**SC.** See **Stanford Cohen and Associates**.

**SCDHEC.** South Carolina Department of Health and Environmental Control.

**seepage basin.** An excavation that receives wastewater. Designed to prevent overflow or surface runoff.

**settling basin.** A temporary holding basin (excavation) that receives wastewater.

**significance of probability.** The probability of observing a statistical value as significant as, or more significant than, the value actually observed.

**site custodian.** WSRC employee responsible for ensuring that a site is monitored.

**SQL.** See **sample quantitation limit**.

**SRL.** Savannah River Laboratory at SRS; now Savannah River Technology Center (SRTC).

**SRP.** Savannah River Plant; now Savannah River Site (SRS).



**SRS.** Savannah River Site.

**SRTC.** Savannah River Technology Center.

**Stanford Cohen and Associates.** Stanford Cohen and Associates of Birmingham, AL.

**STORET.** EPA national database for storage and retrieval of water quality information and monitoring data; some of the qualifiers listed in the **Analytical Results** section of this report (**Appendix B**) are based on STORET codes.

**STORET code.** See **qualifier**.

**surrogate.** An organic compound similar in composition and test performance to one of the analytes of interest; known quantities are used in an analysis as a quality assurance measure.

**tank farm.** An installation of interconnected underground tanks used for storage of high-level radioactive liquid wastes.

**Thermo NUtech.** Thermo NUtech, of Oak Ridge, TN (subcontractor for Recra LabNet Philadelphia and QST Environmental).

**TL.** See **Triangle Laboratories**.

**TM.** See Thermo NUtech.

**TOC.** Top of casing. The elevation of the casing at the top of a well; used as a reference for water-level measurements.

**Triangle Laboratories.** Triangle Laboratories, Inc., of Durham, NC (subcontractor for Environmental Science & Engineering).

**trip blank.** A sample container of deionized water that is transported to the well sample location, treated as a well sample, and sent to the laboratory for analysis; trip blanks are used to check for contamination resulting from transport, shipping, and site conditions.

**t-test.** Statistical method used to determine if the means of groups of observations are equal.

**turbidity.** A measure of the concentration of sediment or suspended particles in solution.

**U.** Unclassified.

**USDWS.** U.S. Public Health Service drinking water standard.

**validation and verification.** The standard, in-depth review process to which laboratory analytical data are subjected before being used. The data verification process confirms that the required samples were collected and documented, the required analyses were performed on the samples, and the analytical results were reported correctly. The data validation process determines the usefulness of each analytical result based on QC and method requirements. The information evaluated during this process includes COC forms, analytical narrative summaries, and analytical result data files.

**volatile organic compounds.** A broad range of organic compounds, commonly halogenated, that vaporize at ambient, or relatively low, temperatures (e.g., acetone, benzene, chloroform, and methyl alcohol).

**WA.** See **Recra LabNet Philadelphia**.

**well volume.** The volume of water between the well water surface and the bottom of the screen; the volume of water standing inside the well casing.



**wellhead.** The top of a well.

**WSRC.** Westinghouse Savannah River Company.



# References

American Public Health Association, American Water Works Association, and Water Pollution Control Federation. 1985. *Standard Methods for the Examination of Water and Wastewater*, 16th edition. Washington, DC.

American Society for Testing and Materials. 1992. *Annual Book of ASTM Standards*, Volume 11.02. Philadelphia, PA.

Environmental Protection Agency. 1977. *National Interim Primary Drinking Water Regulations*, EPA-570/9-76-003. Washington, DC.

Environmental Protection Agency. 1980. *Prescribed Procedures for Measurement of Radioactivity in Drinking Water*, EPA-600/4-80-032 (method 901.1). Cincinnati, OH.

Environmental Protection Agency. 1982. *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, PB83-201798 (method 625). Cincinnati, OH.

Environmental Protection Agency. 1983. *Methods for Chemical Analysis of Water and Wastes*, PB84-128677 (methods 200.7, 282.2, 310.1, 350.1, 351.2, 413.1, 418.1, and 420.1). Cincinnati, OH.

Environmental Protection Agency. 1986a. *RCRA Ground-Water Monitoring Technical Enforcement Guidance Document*, OSWER-9950.1. Washington, DC: Office of Waste Programs Enforcement.

Environmental Protection Agency. 1986b. *Test Methods for Evaluating Solid Waste*, Volumes 1A, 1B, and 1C, third edition, SW-846 (methods 6010, 8080, 8150, 8240, 8270, 8280, 9020, 9030, and 9060). Washington, DC.

Environmental Protection Agency. 1988a. *Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*. Washington, DC: Office of Solid Waste and Emergency Response.

Environmental Protection Agency. 1988b. *Laboratory Data Validation Functional Guidelines for Inorganics Analyses*, Draft. Washington, DC: Office of Solid Waste and Emergency Response.

Environmental Protection Agency. 1990. National Primary and Secondary Drinking Water Regulations; Synthetic Organic Chemicals and Inorganic Chemicals; Proposed Rule”in *Federal Register*, July 25, 1990, pp. 30369–30448. Washington, DC.

Environmental Protection Agency. 1991a. Guidelines Establishing Test Procedures for the Analysis of Pollutants”in *Code of Federal Regulations*, Title 40, Part 136, pp. 293–575. Washington, DC.

Environmental Protection Agency. 1991b. *National Functional Guidelines for Organic Data Review*, Draft. Washington, DC: Office of Solid Waste and Emergency Response.

Environmental Protection Agency. 1991c. National Primary Drinking Water Regulations; Radionuclides; Proposed *Federal Register*, July 18, 1991, pp. 33052–33127. Washington, DC.

Environmental Protection Agency. 1991d. *Test Method: The Determination of Inorganic Anions in Water by Ion Chromatography Method 300.0*, Revised August 1991. Cincinnati, OH.

Environmental Protection Agency. 1991e *USEPA Contract Laboratory Program, Statement of Work (CLP SOW) for Organics Analysis, Multi-Media, Multi-Concentration*, ILM03.0. Washington, DC.

Environmental Protection Agency. 1997a. National Primary Drinking Water Regulations”in *Code of Federal Regulations*, pp. 288432. Washington, DC.



Environmental Protection Agency. 1997b. National Secondary Drinking Water Regulations" in *Code of Federal Regulations*, pp. 473474. Washington, DC.

Environmental Protection Agency. 1999. Standards for Owners and Operators of Hazardous Waste Treatment, *Code of Federal Regulations*, Title 40, Part 264, App. IX. Washington, DC.

Environmental Protection Agency. 2001a. National Primary Drinking Water Regulations" in *Code of Federal Regulations*. Washington, DC.

Environmental Protection Agency. 2001b. National Secondary Drinking Water Regulations" in *Code of Federal Regulations*. Washington, DC.

Keith, L.H. 1991. *Environmental Sampling and Analysis: A Practical Guide*. Chelsea, MI: Lewis Publishers.

South Carolina Department of Health and Environmental Control. 1981. *State Primary Drinking Water Regulations*, R.61-58.5. Columbia, SC.

U.S. Department of Energy. 1986. *Savannah River Plant Environmental Report for 1985*, Volumes I and II, DPSPU-86-30-1. Aiken, SC.

U.S. Department of Energy. 1987. *Savannah River Plant Environmental Report for 1986*, Volumes I and II, DPSPU-87-30-1. Aiken, SC.

U.S. Department of Energy. 1988a. *Geohydrology Program Report*. Aiken, SC: Environmental Division, Savannah River Operations Office.

U.S. Department of Energy. 1988b. *Savannah River Plant Environmental Report for 1987*, Volumes I and II, DPSPU-88-30-1. Aiken, SC.

U.S. Department of Energy. 1989a. *Geoscience Implementation Plan*. Aiken, SC: Environmental Division, Savannah River Operations Office.

U.S. Department of Energy. 1989b. *Savannah River Site Environmental Report for 1988*, Volumes I and II, WSRC-RP-89-59-1. Aiken, SC.

Westinghouse Savannah River Company. *Environmental Geochemistry Group Operating Handbook*, Section 1.800, 'Analytical Data Qualification,' October 19, 1998. ESH-EMS-970437. Aiken, SC.

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## References



# *Appendix A. Water-Level Data*

During second quarter 2001, water-level measurements were obtained for hydrogeologic projects. Most of the data presented on the following pages were obtained as concurrent data for hydrogeologic interpretation in the A/M and F/H areas. Only water levels were measured for this project; no field tests of water characteristics were conducted. RCS Corporation of Aiken, SC, collected the data.



NOTES



**WELL ABP 3C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 162.12 ft (49.41m) below TOC  
Water elevation: 192.38 ft (58.64m) msl

Time: 10:00

**WELL ABP 8C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 180.31 ft (54.96m) below TOC  
Water elevation: 191.79 ft (58.46m) msl

Time: 10:00

**WELL AC 2A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 129.45 ft (39.46m) below TOC  
Water elevation: 215.25 ft (65.61m) msl

Time: 15:11

**WELL AC 2B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 119.82 ft (36.52m) below TOC  
Water elevation: 224.98 ft (68.57m) msl

Time: 15:11

**WELL AC 3A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 97.15 ft (29.61m) below TOC  
Water elevation: 205.15 ft (62.53m) msl

Time: 12:08

**WELL AC 3B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 95.45 ft (29.09m) below TOC  
Water elevation: 207.05 ft (63.11m) msl

Time: 12:10

**WELL ACB 2A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 120.04 ft (36.59m) below TOC  
Water elevation: 229.76 ft (70.03m) msl

Time: 10:00

**WELL AMB 4A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 168.92 ft (51.49m) below TOC  
Water elevation: 211.58 ft (64.49m) msl

Time: 10:00

**WELL AMB 4B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 162.18 ft (49.43m) below TOC  
Water elevation: 218.22 ft (66.51m) msl

Time: 10:00

**WELL AMB 4D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 126.89 ft (38.68m) below TOC  
Water elevation: 253.41 ft (77.24m) msl

Time: 10:00

**WELL AMB 5**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 153.62 ft (46.82m) below TOC  
Water elevation: 225.98 ft (68.88m) msl

Time: 10:00

**WELL AMB 6**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL AMB 7**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 145.43 ft (44.33m) below TOC  
Water elevation: 224.47 ft (68.42m) msl

Time: 10:00

**WELL AMB 7A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 96.18 ft (29.32m) below TOC  
Water elevation: 277.42 ft (84.56m) msl

Time: 10:00

**WELL AMB 7B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 153.51 ft (46.79m) below TOC  
Water elevation: 219.49 ft (66.90m) msl

Time: 10:00

**WELL AMB 8D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 144.31 ft (43.99m) below TOC  
Water elevation: 225.29 ft (68.67m) msl

Time: 10:00



**WELL AMB 9D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 142.49 ft (43.43m) below TOC  
Water elevation: 225.41 ft (68.71m) msl

Time: 10:00

**WELL AMB 10A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 198.11 ft (60.38m) below TOC  
Water elevation: 168.39 ft (51.33m) msl

Time: 10:00

**WELL AMB 10B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 149.31 ft (45.51m) below TOC  
Water elevation: 217.09 ft (66.17m) msl

Time: 10:00

**WELL AMB 11B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 147.42 ft (44.93m) below TOC  
Water elevation: 217.18 ft (66.20m) msl

Time: 10:00

**WELL AMB 11D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 136.39 ft (41.57m) below TOC  
Water elevation: 227.61 ft (69.38m) msl

Time: 10:00

**WELL AMB 12D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 142.93 ft (43.57m) below TOC  
Water elevation: 226.87 ft (69.15m) msl

Time: 10:00

**WELL AMB 13AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 152.66 ft (46.53m) below TOC  
Water elevation: 212.44 ft (64.75m) msl

Time: 10:00

**WELL AMB 14D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 157.91 ft (48.13m) below TOC  
Water elevation: 224.49 ft (68.43m) msl

Time: 10:00

**WELL AMB 15D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 156.89 ft (47.82m) below TOC  
Water elevation: 226.51 ft (69.04m) msl

Time: 10:00

**WELL AMB 16D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 154.53 ft (47.10m) below TOC  
Water elevation: 225.87 ft (68.85m) msl

Time: 10:00

**WELL AMB 17A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 167.35 ft (51.01m) below TOC  
Water elevation: 211.75 ft (64.54m) msl

Time: 10:00

**WELL AMB 18A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 166.56 ft (50.77m) below TOC  
Water elevation: 210.74 ft (64.23m) msl

Time: 10:00

**WELL AMB 18C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 149.99 ft (45.72m) below TOC  
Water elevation: 226.01 ft (68.89m) msl

Time: 10:00

**WELL AMB 19C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 140.12 ft (42.71m) below TOC  
Water elevation: 223.58 ft (68.15m) msl

Time: 10:00

**WELL AOB 1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 100.6 ft (30.66m) below TOC  
Water elevation: 240.5 ft (73.31m) msl

Time: 10:00

**WELL AOB 2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00



**WELL ARP 1A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 140.25 ft (42.75m) below TOC  
Water elevation: 214.85 ft (65.49m) msl

Time: 10:00

**WELL ARP 2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 124.41 ft (37.92m) below TOC  
Water elevation: 212.89 ft (64.89m) msl

Time: 10:00

**WELL ARP 3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL ARP 4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL ARP 5D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 139.8 ft (42.61m) below TOC  
Water elevation: Not available

Time: 10:00

**WELL ASB 1A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 118.02 ft (35.97m) below TOC  
Water elevation: 231.08 ft (70.43m) msl

Time: 10:00

**WELL ASB 2AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 122.8 ft (37.43m) below TOC  
Water elevation: 232.8 ft (70.96m) msl

Time: 10:00

**WELL ASB 2CR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 139.13 ft (42.41m) below TOC  
Water elevation: 216.47 ft (65.98m) msl

Time: 10:00

**WELL ASB 3AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 108.52 ft (33.08m) below TOC  
Water elevation: 233.08 ft (71.04m) msl

Time: 10:00

**WELL ASB 3CR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 125.61 ft (38.29m) below TOC  
Water elevation: 215.89 ft (65.80m) msl

Time: 10:00

**WELL ASB 4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 103.45 ft (31.53m) below TOC  
Water elevation: 232.15 ft (70.76m) msl

Time: 10:00

**WELL ASB 5AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 120.05 ft (36.59m) below TOC  
Water elevation: 226.95 ft (69.18m) msl

Time: 10:00

**WELL ASB 5C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 131.17 ft (39.98m) below TOC  
Water elevation: 216.13 ft (65.88m) msl

Time: 10:00

**WELL ASB 6A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 121.64 ft (37.08m) below TOC  
Water elevation: 228.56 ft (69.67m) msl

Time: 10:00

**WELL ASB 6AA**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 141.64 ft (43.17m) below TOC  
Water elevation: 212.56 ft (64.79m) msl

Time: 10:00

**WELL ASB 6C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 136.22 ft (41.52m) below TOC  
Water elevation: 217.38 ft (66.26m) msl

Time: 10:00



**WELL ASB 6TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 143.99 ft (43.89m) below TOC  
Water elevation: 208.91 ft (63.68m) msl

Time: 10:00

**WELL ASB 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 120.78 ft (36.81m) below TOC  
Water elevation: 228.22 ft (69.56m) msl

Time: 18:59

**WELL ASB 8A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 135.98 ft (41.45m) below TOC  
Water elevation: 213.32 ft (65.02m) msl

Time: 18:59

**WELL ASB 8B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 137.55 ft (41.93m) below TOC  
Water elevation: 212.25 ft (64.69m) msl

Time: 19:00

**WELL ASB 8C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 135.02 ft (41.15m) below TOC  
Water elevation: 214.68 ft (65.44m) msl

Time: 19:00

**WELL ASB 8TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 138.73 ft (42.29m) below TOC  
Water elevation: 210.87 ft (64.27m) msl

Time: 19:02

**WELL ASB 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 72.58 ft (22.12m) below TOC  
Water elevation: 236.42 ft (72.06m) msl

Time: 10:00

**WELL ASB 9B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 94.86 ft (28.91m) below TOC  
Water elevation: 214.14 ft (65.27m) msl

Time: 10:00

**WELL ASB 9C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 94.43 ft (28.78m) below TOC  
Water elevation: 215.47 ft (65.68m) msl

Time: 10:00

**WELL ASB 10CR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 132.98 ft (40.53m) below TOC  
Water elevation: 216.22 ft (65.90m) msl

Time: 10:00

**WELL BGO 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 17.15 ft (17.42m) below TOC  
Water elevation: 237.95 ft (72.53m) msl

Time: 17:32

**WELL BGO 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: Not available  
Water elevation: Not available

Time: 16:53

**WELL BGO 3A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 130.19 ft (39.68m) below TOC  
Water elevation: 161.71 ft (49.29m) msl

Time: 16:54

**WELL BGO 3C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 68.5 ft (20.88m) below TOC  
Water elevation: 223.4 ft (68.09m) msl

Time: 16:55

**WELL BGO 3DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 62.5 ft (19.05m) below TOC  
Water elevation: 229 ft (69.80m) msl

Time: 16:56

**WELL BGO 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 41.46 ft (12.64m) below TOC  
Water elevation: 256.04 ft (78.04m) msl

Time: 16:57



**WELL BGO 5C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 108.99 ft (33.22m) below TOC  
Water elevation: 187.11 ft (57.03m) msl

Time: 16:57

**WELL BGO 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 69.44 ft (21.17m) below TOC  
Water elevation: 226.86 ft (69.15m) msl

Time: 16:58

**WELL BGO 6A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 127.65 ft (38.91m) below TOC  
Water elevation: 157.95 ft (48.14m) msl

Time: 16:59

**WELL BGO 6B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 71.26 ft (21.72m) below TOC  
Water elevation: 215.54 ft (65.70m) msl

Time: 16:59

**WELL BGO 6C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 69.04 ft (21.04m) below TOC  
Water elevation: 216.56 ft (66.01m) msl

Time: 17:00

**WELL BGO 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 57.84 ft (17.63m) below TOC  
Water elevation: 227.66 ft (69.39m) msl

Time: 17:00

**WELL BGO 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 59.09 ft (18.01m) below TOC  
Water elevation: 227.91 ft (69.47m) msl

Time: 17:34

**WELL BGO 8AR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 128.34 ft (39.12m) below TOC  
Water elevation: 158.26 ft (48.24m) msl

Time: 17:34

**WELL BGO 8C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 68.34 ft (20.83m) below TOC  
Water elevation: 219.56 ft (66.92m) msl

Time: 17:35

**WELL BGO 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 59.82 ft (18.23m) below TOC  
Water elevation: 227.98 ft (69.49m) msl

Time: 17:35

**WELL BGO 9AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 128.35 ft (39.12m) below TOC  
Water elevation: 156.45 ft (47.69m) msl

Time: 17:35

**WELL BGO 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 58.93 ft (17.96m) below TOC  
Water elevation: 226.17 ft (68.94m) msl

Time: 17:36

**WELL BGO 10AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 144.46 ft (44.03m) below TOC  
Water elevation: 156.24 ft (47.62m) msl

Time: 17:36

**WELL BGO 10AR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 143.64 ft (43.78m) below TOC  
Water elevation: 156.86 ft (47.81m) msl

Time: 17:36

**WELL BGO 10B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 85.56 ft (26.08m) below TOC  
Water elevation: 215.44 ft (65.67m) msl

Time: 17:37

**WELL BGO 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 84.78 ft (25.84m) below TOC  
Water elevation: 216.52 ft (66.00m) msl

Time: 17:37



**WELL BGO 10DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 72.98 ft (22.24m) below TOC  
Water elevation: 227.42 ft (69.32m) msl  
Time: 17:38

**WELL BGO 11DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 78.1 ft (23.81m) below TOC  
Water elevation: 227.1 ft (69.22m) msl  
Time: 17:38

**WELL BGO 12AX**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 157 ft (47.85m) below TOC  
Water elevation: 155.8 ft (47.49m) msl  
Time: 17:38

**WELL BGO 12CX**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 86.84 ft (26.47m) below TOC  
Water elevation: 226.46 ft (69.03m) msl  
Time: 17:39

**WELL BGO 12DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 97.09 ft (29.59m) below TOC  
Water elevation: 216.51 ft (65.99m) msl  
Time: 17:39

**WELL BGO 13DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 92.81 ft (28.29m) below TOC  
Water elevation: 226.49 ft (69.03m) msl  
Time: 17:39

**WELL BGO 14AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 145.43 ft (44.33m) below TOC  
Water elevation: 155.27 ft (47.33m) msl  
Time: 17:40

**WELL BGO 14CR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 81.01 ft (24.69m) below TOC  
Water elevation: 219.49 ft (66.90m) msl  
Time: 17:40

**WELL BGO 14DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 74.27 ft (22.64m) below TOC  
Water elevation: 226.03 ft (68.89m) msl  
Time: 17:40

**WELL BGO 15D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 72.33 ft (22.05m) below TOC  
Water elevation: 226.37 ft (69.00m) msl  
Time: 17:41

**WELL BGO 16A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 145.21 ft (44.26m) below TOC  
Water elevation: 159.79 ft (48.70m) msl  
Time: 17:04

**WELL BGO 16AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 144.18 ft (43.95m) below TOC  
Water elevation: 159.52 ft (48.62m) msl  
Time: 12:46

**WELL BGO 16B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 90.12 ft (27.47m) below TOC  
Water elevation: 214.98 ft (65.53m) msl  
Time: 12:47

**WELL BGO 16D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 77.35 ft (23.58m) below TOC  
Water elevation: 227.25 ft (69.27m) msl  
Time: 12:47

**WELL BGO 17DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: Not available  
Water elevation: Not available  
Time: 12:48

**WELL BGO 18A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 135.35 ft (41.26m) below TOC  
Water elevation: 159.85 ft (48.72m) msl  
Time: 12:49



**WELL BGO 18D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 66.9 ft (20.39m) below TOC  
Water elevation: 228 ft (69.50m) msl

Time: 12:50

**WELL BGO 19DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 65.79 ft (20.05m) below TOC  
Water elevation: 228.01 ft (69.50m) msl

Time: 12:51

**WELL BGO 20A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 122.51 ft (37.34m) below TOC  
Water elevation: 161.39 ft (49.19m) msl

Time: 12:52

**WELL BGO 20AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 123.52 ft (37.65m) below TOC  
Water elevation: 160.08 ft (48.79m) msl

Time: 12:53

**WELL BGO 20B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 58.05 ft (17.69m) below TOC  
Water elevation: 225.45 ft (68.72m) msl

Time: 12:54

**WELL BGO 20C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 57.25 ft (17.45m) below TOC  
Water elevation: 226.25 ft (68.96m) msl

Time: 17:01

**WELL BGO 20D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 53.38 ft (16.27m) below TOC  
Water elevation: 230.32 ft (70.20m) msl

Time: 12:55

**WELL BGO 21D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 54.15 ft (16.51m) below TOC  
Water elevation: 231.25 ft (70.49m) msl

Time: 17:03

**WELL BGO 22DX**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 54.04 ft (16.47m) below TOC  
Water elevation: 231.66 ft (70.61m) msl

Time: 17:02

**WELL BGO 23D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 59.9 ft (18.26m) below TOC  
Water elevation: 229.3 ft (69.89m) msl

Time: 12:58

**WELL BGO 24D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 70.04 ft (21.35m) below TOC  
Water elevation: 223.16 ft (68.02m) msl

Time: 12:58

**WELL BGO 25A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 136.79 ft (41.69m) below TOC  
Water elevation: 159.71 ft (48.68m) msl

Time: 17:41

**WELL BGO 26A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 129.92 ft (39.60m) below TOC  
Water elevation: 157.28 ft (47.94m) msl

Time: 12:55

**WELL BGO 26D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 61.62 ft (18.78m) below TOC  
Water elevation: 223.88 ft (68.24m) msl

Time: 12:55

**WELL BGO 27C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 58.81 ft (17.93m) below TOC  
Water elevation: 217.19 ft (66.20m) msl

Time: 12:40

**WELL BGO 27D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 52.52 ft (16.01m) below TOC  
Water elevation: 223.78 ft (68.21m) msl

Time: 12:41







**WELL BGO 37D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 48.76 ft (14.86m) below TOC  
Water elevation: 238.54 ft (72.71m) msl

Time: 13:29

**WELL BGO 38D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 53.64 ft (16.35m) below TOC  
Water elevation: 237.96 ft (72.53m) msl

Time: 13:31

**WELL BGO 39A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 131.29 ft (40.02m) below TOC  
Water elevation: 164.61 ft (50.17m) msl

Time: 17:42

**WELL BGO 39C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 66 ft (20.12m) below TOC  
Water elevation: 230.4 ft (70.23m) msl

Time: 17:42

**WELL BGO 39D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 60.74 ft (18.51m) below TOC  
Water elevation: 234.96 ft (71.62m) msl

Time: 17:42

**WELL BGO 40D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 70.24 ft (21.41m) below TOC  
Water elevation: 218.16 ft (66.50m) msl

Time: 17:43

**WELL BGO 41A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 141.86 ft (43.24m) below TOC  
Water elevation: 158.44 ft (48.29m) msl

Time: 17:43

**WELL BGO 42C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 79.76 ft (24.31m) below TOC  
Water elevation: 218.14 ft (66.49m) msl

Time: 17:43

**WELL BGO 43A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 157.21 ft (47.92m) below TOC  
Water elevation: 157.69 ft (48.06m) msl

Time: 17:44

**WELL BGO 43AA**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 160.24 ft (48.84m) below TOC  
Water elevation: 154.06 ft (46.96m) msl

Time: 17:44

**WELL BGO 43CR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 95 ft (28.96m) below TOC  
Water elevation: 220.3 ft (67.15m) msl

Time: 17:44

**WELL BGO 43D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 99.61 ft (30.36m) below TOC  
Water elevation: 215.69 ft (65.74m) msl

Time: 17:45

**WELL BGO 44A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 128.23 ft (39.08m) below TOC  
Water elevation: 157.07 ft (47.88m) msl

Time: 17:45

**WELL BGO 44AA**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 116.75 ft (35.59m) below TOC  
Water elevation: 168.55 ft (51.37m) msl

Time: 17:46

**WELL BGO 44B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 68 ft (20.73m) below TOC  
Water elevation: 217.2 ft (66.20m) msl

Time: 17:47

**WELL BGO 44C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 68.64 ft (20.92m) below TOC  
Water elevation: 216.96 ft (66.13m) msl

Time: 17:47



**WELL BGO 44D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 48.58 ft (14.81m) below TOC  
Water elevation: 236.82 ft (72.18m) msl

Time: 17:47

**WELL BGO 45A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 120.91 ft (36.85m) below TOC  
Water elevation: 157.99 ft (48.16m) msl

Time: 17:48

**WELL BGO 45B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 63.32 ft (19.30m) below TOC  
Water elevation: 215.28 ft (65.62m) msl

Time: 17:48

**WELL BGO 45C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 59.21 ft (18.05m) below TOC  
Water elevation: 219.39 ft (66.87m) msl

Time: 17:48

**WELL BGO 45D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 49.78 ft (15.17m) below TOC  
Water elevation: 228.82 ft (69.75m) msl

Time: 17:49

**WELL BGO 46B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 50.61 ft (15.43m) below TOC  
Water elevation: 214.79 ft (65.47m) msl

Time: 12:10

**WELL BGO 46C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 48.76 ft (14.86m) below TOC  
Water elevation: 216.34 ft (65.94m) msl

Time: 12:10

**WELL BGO 46D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 43 ft (13.11m) below TOC  
Water elevation: 222.1 ft (67.70m) msl

Time: 12:11

**WELL BGO 47A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 106.16 ft (32.36m) below TOC  
Water elevation: 160.74 ft (48.99m) msl

Time: 12:17

**WELL BGO 47C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 44.46 ft (13.55m) below TOC  
Water elevation: 223.14 ft (68.01m) msl

Time: 12:17

**WELL BGO 47D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 47.91 ft (14.60m) below TOC  
Water elevation: 219.49 ft (66.90m) msl

Time: 12:17

**WELL BGO 48C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 56.24 ft (17.14m) below TOC  
Water elevation: 220.36 ft (67.17m) msl

Time: 12:23

**WELL BGO 48D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 53.64 ft (16.35m) below TOC  
Water elevation: 223.26 ft (68.05m) msl

Time: 12:23

**WELL BGO 49A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 107.45 ft (32.75m) below TOC  
Water elevation: 163.75 ft (49.91m) msl

Time: 17:06

**WELL BGO 49C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 45.07 ft (13.74m) below TOC  
Water elevation: 226.03 ft (68.89m) msl

Time: 17:07

**WELL BGO 49D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 41.13 ft (12.54m) below TOC  
Water elevation: 230.37 ft (70.22m) msl

Time: 17:07



**WELL BGO 50A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 96.52 ft (29.42m) below TOC  
Water elevation: 158.88 ft (48.43m) msl

Time: 12:04

**WELL BGO 50C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.15 ft (12.24m) below TOC  
Water elevation: 215.35 ft (65.64m) msl

Time: 12:05

**WELL BGO 50D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 34.1 ft (10.39m) below TOC  
Water elevation: 221.9 ft (67.64m) msl

Time: 12:05

**WELL BGO 51A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 125.35 ft (38.21m) below TOC  
Water elevation: 163.95 ft (49.97m) msl

Time: 16:58

**WELL BGO 51AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 122.78 ft (37.42m) below TOC  
Water elevation: 166.42 ft (50.73m) msl

Time: 16:58

**WELL BGO 51B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 60.11 ft (18.32m) below TOC  
Water elevation: 228.99 ft (69.80m) msl

Time: 16:58

**WELL BGO 51C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 57.65 ft (17.57m) below TOC  
Water elevation: 231.45 ft (70.55m) msl

Time: 16:59

**WELL BGO 51D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 16:59

**WELL BGO 52A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 122.05 ft (37.20m) below TOC  
Water elevation: 162.35 ft (49.48m) msl

Time: 17:08

**WELL BGO 52AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 122.87 ft (37.45m) below TOC  
Water elevation: 161.63 ft (49.27m) msl

Time: 17:09

**WELL BGO 52B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 57.79 ft (17.61m) below TOC  
Water elevation: 226.61 ft (69.07m) msl

Time: 17:09

**WELL BGO 52C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:17

**WELL BGO 52D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 64.2 ft (19.57m) below TOC  
Water elevation: 220.6 ft (67.24m) msl

Time: 17:17

**WELL BGO 53A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 133.83 ft (40.79m) below TOC  
Water elevation: 157.37 ft (47.97m) msl

Time: 12:59

**WELL BGO 53AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 134.6 ft (41.03m) below TOC  
Water elevation: 156.8 ft (47.79m) msl

Time: 12:59

**WELL BGO 53B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 73.3 ft (22.34m) below TOC  
Water elevation: 217.8 ft (66.39m) msl

Time: 13:00



**WELL BGO 53C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 71.74 ft (21.87m) below TOC  
Water elevation: 219.16 ft (66.80m) msl

Time: 13:00

**WELL BGO 53D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: Not available  
Water elevation: Not available

Time: 13:01

**WELL BGX 1A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 134.42 ft (40.97m) below TOC  
Water elevation: 156.78 ft (47.79m) msl

Time: 17:19

**WELL BGX 1C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 79.04 ft (24.09m) below TOC  
Water elevation: 212.26 ft (64.70m) msl

Time: 17:19

**WELL BGX 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 65.4 ft (19.93m) below TOC  
Water elevation: 225.9 ft (68.86m) msl

Time: 17:20

**WELL BGX 2B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 82.57 ft (25.17m) below TOC  
Water elevation: 208.73 ft (63.62m) msl

Time: 17:21

**WELL BGX 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 79.96 ft (24.37m) below TOC  
Water elevation: 211.14 ft (64.36m) msl

Time: 17:21

**WELL BGX 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 80.48 ft (24.53m) below TOC  
Water elevation: 210.72 ft (64.23m) msl

Time: 17:49

**WELL BGX 4A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 136.97 ft (41.75m) below TOC  
Water elevation: 153.93 ft (46.92m) msl

Time: 17:49

**WELL BGX 4C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 81.06 ft (24.71m) below TOC  
Water elevation: 209.74 ft (63.93m) msl

Time: 17:50

**WELL BGX 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 80.12 ft (24.42m) below TOC  
Water elevation: 210.78 ft (64.25m) msl

Time: 17:50

**WELL BGX 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 80.64 ft (24.58m) below TOC  
Water elevation: 204.36 ft (62.29m) msl

Time: 17:50

**WELL BGX 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 75.19 ft (22.92m) below TOC  
Water elevation: 201.81 ft (61.51m) msl

Time: 17:22

**WELL BGX 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 77.31 ft (23.56m) below TOC  
Water elevation: 201.89 ft (61.54m) msl

Time: 10:00

**WELL BGX 8DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 75.69 ft (23.07m) below TOC  
Water elevation: 202.51 ft (61.73m) msl

Time: 17:23

**WELL BGX 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 54.99 ft (16.76m) below TOC  
Water elevation: 224.41 ft (68.40m) msl

Time: 10:00



**WELL BGX 10D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 53.45 ft (16.29m) below TOC  
Water elevation: 223.45 ft (68.11m) msl

Time: 17:25

**WELL BGX 11D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 44.24 ft (13.48m) below TOC  
Water elevation: 232.06 ft (70.73m) msl

Time: 17:25

**WELL BGX 12C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 42.73 ft (13.02m) below TOC  
Water elevation: 232.37 ft (70.83m) msl

Time: 17:51

**WELL BGX 12D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 39.54 ft (12.05m) below TOC  
Water elevation: 235.66 ft (71.83m) msl

Time: 17:51

**WELL BSE 1C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 56.2 ft (17.13m) below TOC  
Water elevation: 235.9 ft (71.90m) msl

Time: 17:04

**WELL BSE 1C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:04

**WELL BSE 1C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 56.19 ft (17.13m) below TOC  
Water elevation: 235.91 ft (71.91m) msl

Time: 17:07

**WELL BSE 1C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 56.38 ft (17.18m) below TOC  
Water elevation: 235.72 ft (71.85m) msl

Time: 17:07

**WELL BSE 1D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 48.36 ft (14.74m) below TOC  
Water elevation: 238.14 ft (72.59m) msl

Time: 17:08

**WELL BSE 1D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 49.39 ft (15.05m) below TOC  
Water elevation: 237.11 ft (72.27m) msl

Time: 17:08

**WELL BSE 1D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 50.34 ft (15.34m) below TOC  
Water elevation: 236.16 ft (71.98m) msl

Time: 17:08

**WELL BSE 1D4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 50.58 ft (15.42m) below TOC  
Water elevation: 235.92 ft (71.91m) msl

Time: 17:09

**WELL BSE 2C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:10

**WELL BSE 2C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:12

**WELL BSE 2C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:12

**WELL BSE 2C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:13



**WELL BSE 2D1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 47.22 ft (14.39m) below TOC  
Water elevation: 239.28 ft (72.93m) msl

Time: 17:14

**WELL BSE 2D2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 47.14 ft (14.37m) below TOC  
Water elevation: 239.36 ft (72.96m) msl

Time: 17:14

**WELL BSE 2D3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 47.12 ft (14.36m) below TOC  
Water elevation: 239.38 ft (72.96m) msl

Time: 17:14

**WELL BSE 2D4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 17:15

**WELL BSE 3C1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 61.19 ft (18.65m) below TOC  
Water elevation: 225.91 ft (68.86m) msl

Time: 17:16

**WELL BSE 3C2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 61.13 ft (18.63m) below TOC  
Water elevation: 225.97 ft (68.88m) msl

Time: 17:16

**WELL BSE 3C3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 61.1 ft (18.62m) below TOC  
Water elevation: 226 ft (68.89m) msl

Time: 17:16

**WELL BSE 3C4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 61.16 ft (18.64m) below TOC  
Water elevation: 225.94 ft (68.87m) msl

Time: 17:17

**WELL BSE 3D1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 61.74 ft (18.82m) below TOC  
Water elevation: 225.36 ft (68.69m) msl

Time: 17:18

**WELL BSE 3D2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 64.63 ft (19.70m) below TOC  
Water elevation: 222.47 ft (67.81m) msl

Time: 17:18

**WELL BSE 3D3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 58.54 ft (17.84m) below TOC  
Water elevation: 228.56 ft (69.67m) msl

Time: 17:19

**WELL BSE 3D4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 57.09 ft (17.40m) below TOC  
Water elevation: 230.01 ft (70.11m) msl

Time: 17:19

**WELL BSW 1C1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 42.98 ft (13.10m) below TOC  
Water elevation: 213.72 ft (65.14m) msl

Time: 10:00

**WELL BSW 1C2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 42.94 ft (13.09m) below TOC  
Water elevation: 213.76 ft (65.15m) msl

Time: 10:00

**WELL BSW 1C3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 44.13 ft (13.45m) below TOC  
Water elevation: 212.57 ft (64.79m) msl

Time: 10:00

**WELL BSW 1C4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 44.38 ft (13.53m) below TOC  
Water elevation: 212.32 ft (64.72m) msl

Time: 10:00



**WELL BSW 1D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 37.35 ft (11.38m) below TOC  
Water elevation: 219.25 ft (66.83m) msl

Time: 10:00

**WELL BSW 1D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 37.71 ft (11.49m) below TOC  
Water elevation: 218.89 ft (66.72m) msl

Time: 10:00

**WELL BSW 2C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 26.99 ft (8.23m) below TOC  
Water elevation: 214.41 ft (65.35m) msl

Time: 15:47

**WELL BSW 2C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 29.45 ft (8.98m) below TOC  
Water elevation: 211.95 ft (64.60m) msl

Time: 15:49

**WELL BSW 2C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 28.98 ft (8.83m) below TOC  
Water elevation: 212.42 ft (64.75m) msl

Time: 16:17

**WELL BSW 2D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 22.14 ft (6.75m) below TOC  
Water elevation: 219.74 ft (66.98m) msl

Time: 16:19

**WELL BSW 2D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 22.14 ft (6.75m) below TOC  
Water elevation: 219.76 ft (66.98m) msl

Time: 16:20

**WELL BSW 2D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 23.29 ft (7.10m) below TOC  
Water elevation: 218.61 ft (66.63m) msl

Time: 17:16

**WELL BSW 3C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 42.79 ft (13.04m) below TOC  
Water elevation: 217.61 ft (66.33m) msl

Time: 17:20

**WELL BSW 3C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 45.2 ft (13.78m) below TOC  
Water elevation: 215.2 ft (65.59m) msl

Time: 17:21

**WELL BSW 3C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 45.46 ft (13.86m) below TOC  
Water elevation: 214.94 ft (65.51m) msl

Time: 17:21

**WELL BSW 3C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 45.79 ft (13.96m) below TOC  
Water elevation: 214.51 ft (65.38m) msl

Time: 17:22

**WELL BSW 3D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 39.26 ft (11.97m) below TOC  
Water elevation: 220.24 ft (67.13m) msl

Time: 17:22

**WELL BSW 3D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 39.62 ft (12.08m) below TOC  
Water elevation: 219.88 ft (67.02m) msl

Time: 17:22

**WELL BSW 4C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 49.19 ft (14.99m) below TOC  
Water elevation: 218.41 ft (66.57m) msl

Time: 17:51

**WELL BSW 4C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 49.36 ft (15.05m) below TOC  
Water elevation: 218.04 ft (66.46m) msl

Time: 17:53



**WELL BSW 4C3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 50.3 ft (15.33m) below TOC  
Water elevation: 217.2 ft (66.20m) msl  
Time: 17:53

**WELL BSW 4D1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 47.49 ft (14.48m) below TOC  
Water elevation: 221.11 ft (67.40m) msl  
Time: 17:53

**WELL BSW 4D2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 47.75 ft (14.55m) below TOC  
Water elevation: 220.75 ft (67.29m) msl  
Time: 17:54

**WELL BSW 4D3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 47.81 ft (14.57m) below TOC  
Water elevation: 220.79 ft (67.30m) msl  
Time: 17:54

**WELL BSW 5C1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 44.9 ft (13.69m) below TOC  
Water elevation: 212.4 ft (64.74m) msl  
Time: 9:29

**WELL BSW 5C2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 45.3 ft (13.81m) below TOC  
Water elevation: 211.9 ft (64.59m) msl  
Time: 9:30

**WELL BSW 5C3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 45.39 ft (13.84m) below TOC  
Water elevation: 211.61 ft (64.50m) msl  
Time: 9:31

**WELL BSW 5C4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 45.77 ft (13.95m) below TOC  
Water elevation: 211.43 ft (64.44m) msl  
Time: 9:31

**WELL BSW 5D1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.39 ft (12.31m) below TOC  
Water elevation: 216.81 ft (66.08m) msl  
Time: 9:32

**WELL BSW 5D2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 43.6 ft (13.29m) below TOC  
Water elevation: 213.7 ft (65.14m) msl  
Time: 9:32

**WELL BSW 5D3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.51 ft (12.35m) below TOC  
Water elevation: 216.89 ft (66.11m) msl  
Time: 9:33

**WELL BSW 6C1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 33.57 ft (10.23m) below TOC  
Water elevation: 210.53 ft (64.17m) msl  
Time: 9:34

**WELL BSW 6C2**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 33.91 ft (10.34m) below TOC  
Water elevation: 210.19 ft (64.07m) msl  
Time: 9:34

**WELL BSW 6C3**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 33.86 ft (10.32m) below TOC  
Water elevation: 210.04 ft (64.02m) msl  
Time: 9:35

**WELL BSW 6C4**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 34.77 ft (10.60m) below TOC  
Water elevation: 209.33 ft (63.80m) msl  
Time: 9:35

**WELL BSW 6D1**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 9.9 ft (3.02m) below TOC  
Water elevation: 234.7 ft (71.54m) msl  
Time: 9:36



**WELL BSW 6D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 31.32 ft (9.55m) below TOC  
Water elevation: 213.28 ft (65.01m) msl

Time: 9:37

**WELL BSW 6D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 31.07 ft (9.47m) below TOC  
Water elevation: 213.53 ft (65.08m) msl

Time: 10:00

**WELL BSW 7C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 36.71 ft (11.19m) below TOC  
Water elevation: 212.59 ft (64.80m) msl

Time: 14:42

**WELL BSW 7C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 36.1 ft (11.00m) below TOC  
Water elevation: 213.2 ft (64.98m) msl

Time: 10:00

**WELL BSW 7C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 37.35 ft (11.38m) below TOC  
Water elevation: 211.95 ft (64.60m) msl

Time: 10:00

**WELL BSW 7C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 38.54 ft (11.75m) below TOC  
Water elevation: 210.76 ft (64.24m) msl

Time: 10:00

**WELL BSW 7D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 75.55 ft (23.03m) below TOC  
Water elevation: 175.05 ft (53.36m) msl

Time: 14:43

**WELL BSW 7D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 35.58 ft (10.84m) below TOC  
Water elevation: 215.12 ft (65.57m) msl

Time: 15:21

**WELL BSW 7D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 35.94 ft (10.95m) below TOC  
Water elevation: 214.76 ft (65.46m) msl

Time: 15:21

**WELL BSW 8C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 18.24 ft (5.56m) below TOC  
Water elevation: 215.76 ft (65.76m) msl

Time: 17:23

**WELL BSW 8C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 18.52 ft (5.64m) below TOC  
Water elevation: 215.48 ft (65.68m) msl

Time: 17:23

**WELL BSW 8C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 18.8 ft (5.73m) below TOC  
Water elevation: 215.2 ft (65.59m) msl

Time: 17:23

**WELL BSW 8C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 20.13 ft (6.14m) below TOC  
Water elevation: 213.97 ft (65.22m) msl

Time: 17:24

**WELL BSW 8D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 16.35 ft (4.98m) below TOC  
Water elevation: 217.15 ft (66.19m) msl

Time: 17:55

**WELL BSW 8D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 16.08 ft (4.90m) below TOC  
Water elevation: 217.42 ft (66.27m) msl

Time: 17:55

**WELL BSW 8D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 16.09 ft (4.90m) below TOC  
Water elevation: 217.31 ft (66.24m) msl

Time: 17:56



**WELL CMB 1I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 76.45 ft (23.30m) below TOC  
Water elevation: Not available

Time: 9:36

**WELL CMB 2I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 68.49 ft (20.88m) below TOC  
Water elevation: Not available

Time: 9:41

**WELL CMB 4I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:21

**WELL CMB 5I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 65.24 ft (19.89m) below TOC  
Water elevation: Not available

Time: 14:23

**WELL CMB 6I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 79.82 ft (24.33m) below TOC  
Water elevation: Not available

Time: 9:31

**WELL CMB 7I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 68.48 ft (20.87m) below TOC  
Water elevation: Not available

Time: 9:47

**WELL CMB 8I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:19

**WELL CMB 9I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 9:50

**WELL CMB 10I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 9:30

**WELL CMB 11I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 9:24

**WELL CMB 12I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:04

**WELL CMB 13I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 69.06 ft (21.05m) below TOC  
Water elevation: Not available

Time: 14:00

**WELL CMB 14I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.47 ft (23.00m) below TOC  
Water elevation: Not available

Time: 14:14

**WELL CMB 15I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 71.56 ft (21.81m) below TOC  
Water elevation: Not available

Time: 14:12

**WELL CMB 16I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.31 ft (22.95m) below TOC  
Water elevation: Not available

Time: 14:08

**WELL CMB 17I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 9:21



**WELL CMB 18I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 13:54

**WELL CMB 19I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.54 ft (23.02m) below TOC  
Water elevation: Not available

Time: 14:53

**WELL CMB 20I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:50

**WELL CMB 21I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 69.56 ft (21.20m) below TOC  
Water elevation: Not available

Time: 14:44

**WELL CMB 22I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 67.6 ft (20.60m) below TOC  
Water elevation: Not available

Time: 9:53

**WELL CMB 23I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 74.97 ft (22.85m) below TOC  
Water elevation: Not available

Time: 14:56

**WELL CMB 24I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 85.57 ft (26.08m) below TOC  
Water elevation: Not available

Time: 14:45

**WELL CMB 24P**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:47

**WELL CMB 25I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 70.25 ft (21.41m) below TOC  
Water elevation: Not available

Time: 10:00

**WELL CMB 26I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:39

**WELL CMB 27I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 74.81 ft (22.80m) below TOC  
Water elevation: Not available

Time: 14:58

**WELL CMB 28I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 73.29 ft (22.34m) below TOC  
Water elevation: Not available

Time: 15:11

**WELL CMB 29I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 72.06 ft (21.96m) below TOC  
Water elevation: Not available

Time: 10:03

**WELL CMB 31I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 77.8 ft (23.71m) below TOC  
Water elevation: Not available

Time: 9:57

**WELL CMB 32I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 74.36 ft (22.67m) below TOC  
Water elevation: Not available

Time: 15:07

**WELL CMB 33I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 73.22 ft (22.32m) below TOC  
Water elevation: Not available

Time: 10:00



**WELL CMB 34I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 77.67 ft (23.67m) below TOC  
Water elevation: Not available

Time: 10:00

**WELL CMB 35I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.48 ft (23.01m) below TOC  
Water elevation: Not available

Time: 15:05

**WELL CMB 36I**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.35 ft (22.97m) below TOC  
Water elevation: Not available

Time: 15:03

**WELL CMP 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 26.83 ft (8.18m) below TOC  
Water elevation: 201.77 ft (61.50m) msl

Time: 15:57

**WELL CMP 8A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 93.75 ft (28.58m) below TOC  
Water elevation: 135.95 ft (41.44m) msl

Time: 15:51

**WELL CMP 8B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 32.86 ft (10.02m) below TOC  
Water elevation: 196.64 ft (59.94m) msl

Time: 15:55

**WELL CMP 10B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 117.48 ft (35.81m) below TOC  
Water elevation: 193.32 ft (58.92m) msl

Time: 10:56

**WELL CMP 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 115.91 ft (35.33m) below TOC  
Water elevation: 195.79 ft (59.68m) msl

Time: 10:57

**WELL CMP 10D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 94.44 ft (28.79m) below TOC  
Water elevation: 216.96 ft (66.13m) msl

Time: 10:57

**WELL CMP 11B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 117.07 ft (35.68m) below TOC  
Water elevation: 193.13 ft (58.87m) msl

Time: 15:21

**WELL CMP 11D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 94.52 ft (28.81m) below TOC  
Water elevation: 217.08 ft (66.17m) msl

Time: 15:20

**WELL CMP 12A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 103.58 ft (31.57m) below TOC  
Water elevation: 180.52 ft (55.02m) msl

Time: 10:39

**WELL CMP 13B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 96.09 ft (29.29m) below TOC  
Water elevation: 193.01 ft (58.83m) msl

Time: 10:38

**WELL CMP 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 71.52 ft (21.80m) below TOC  
Water elevation: 192.98 ft (58.82m) msl

Time: 15:38

**WELL CMP 14D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 54.79 ft (16.70m) below TOC  
Water elevation: 211.01 ft (64.32m) msl

Time: 15:38

**WELL CMP 15A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 97.15 ft (29.61m) below TOC  
Water elevation: 179.35 ft (54.67m) msl

Time: 13:41



**WELL CMP 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 76.92 ft (23.45m) below TOC  
Water elevation: 199.48 ft (60.80m) msl

Time: 13:43

**WELL CMP 15C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 52.28 ft (15.94m) below TOC  
Water elevation: 224.72 ft (68.50m) msl

Time: 13:44

**WELL CMP 30B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 95.8 ft (29.20m) below TOC  
Water elevation: 193.2 ft (58.89m) msl

Time: 15:26

**WELL CMP 30C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 84.38 ft (25.72m) below TOC  
Water elevation: 205.32 ft (62.58m) msl

Time: 15:27

**WELL CMP 30D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.98 ft (23.16m) below TOC  
Water elevation: 214.02 ft (65.23m) msl

Time: 15:35

**WELL CMP 31B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 65.31 ft (19.91m) below TOC  
Water elevation: 192.99 ft (58.82m) msl

Time: 15:43

**WELL CMP 32B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 60.38 ft (18.40m) below TOC  
Water elevation: 193.42 ft (58.96m) msl

Time: 10:37

**WELL CMP 32C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 60.61 ft (18.47m) below TOC  
Water elevation: 193.49 ft (58.98m) msl

Time: 10:31

**WELL CMP 32D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:38

**WELL CMP 33D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 51.94 ft (15.83m) below TOC  
Water elevation: Not available

Time: 15:46

**WELL CMP 50D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 9.9 ft (3.02m) below TOC  
Water elevation: 273.4 ft (83.33m) msl

Time: 13:51

**WELL CMP 50D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 76.37 ft (23.28m) below TOC  
Water elevation: 206.93 ft (63.07m) msl

Time: 13:52

**WELL FIW 11D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 77.71 ft (23.69m) below TOC  
Water elevation: 216.19 ft (65.90m) msl

Time: 10:37

**WELL FIW 1MC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 82.36 ft (25.10m) below TOC  
Water elevation: 211.34 ft (64.42m) msl

Time: 10:37

**WELL FIW 2IC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 79.6 ft (24.26m) below TOC  
Water elevation: 210.9 ft (64.28m) msl

Time: 10:58

**WELL FIW 2MA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 142.54 ft (43.45m) below TOC  
Water elevation: 150.16 ft (45.77m) msl

Time: 10:56



**WELL FIW 2MC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.99 ft (23.16m) below TOC  
Water elevation: 209.81 ft (63.95m) msl

Time: 11:11

**WELL FIW 2MD**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75 ft (22.86m) below TOC  
Water elevation: 215.8 ft (65.78m) msl

Time: 10:59

**WELL FOB 5C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 64.31 ft (19.60m) below TOC  
Water elevation: 194.49 ft (59.28m) msl

Time: 17:23

**WELL FOB 7A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 145.69 ft (44.41m) below TOC  
Water elevation: 152.21 ft (46.39m) msl

Time: 12:19

**WELL FOB 7C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 90.88 ft (27.70m) below TOC  
Water elevation: 207.52 ft (63.25m) msl

Time: 12:19

**WELL FOB 9C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 84.13 ft (25.64m) below TOC  
Water elevation: 210.87 ft (64.27m) msl

Time: 12:49

**WELL FOB 11C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 50.94 ft (15.53m) below TOC  
Water elevation: 212.76 ft (64.85m) msl

Time: 11:16

**WELL FSB 0PC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 39.26 ft (11.97m) below TOC  
Water elevation: 193.44 ft (58.96m) msl

Time: 17:23

**WELL FSB 0PD**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 53.56 ft (16.33m) below TOC  
Water elevation: 201.14 ft (61.31m) msl

Time: 17:46

**WELL FSB 25PC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 39.55 ft (12.05m) below TOC  
Water elevation: 194.25 ft (59.21m) msl

Time: 17:24

**WELL FSB 25PD**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 39.16 ft (16.20m) below TOC  
Water elevation: 201.44 ft (61.40m) msl

Time: 17:24

**WELL FSB 50PC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 39.28 ft (11.97m) below TOC  
Water elevation: 191.92 ft (58.50m) msl

Time: 17:24

**WELL FSB 50PD**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 55.76 ft (17.00m) below TOC  
Water elevation: 202.24 ft (61.64m) msl

Time: 10:00

**WELL FSB 76**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 77.97 ft (23.77m) below TOC  
Water elevation: 216.23 ft (65.91m) msl

Time: 10:37

**WELL FSB 76A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 139.94 ft (42.65m) below TOC  
Water elevation: 153.96 ft (46.93m) msl

Time: 10:38

**WELL FSB 76B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 143.69 ft (43.80m) below TOC  
Water elevation: 150.11 ft (45.75m) msl

Time: 10:38



**WELL FSB 76C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 82.66 ft (25.20m) below TOC  
Water elevation: 210.94 ft (64.30m) msl

Time: 10:38

**WELL FSB 77**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 61.99 ft (18.89m) below TOC  
Water elevation: 211.31 ft (64.41m) msl

Time: 14:27

**WELL FSB 78**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 68.36 ft (20.84m) below TOC  
Water elevation: 204.24 ft (62.25m) msl

Time: 11:50

**WELL FSB 78A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 117.87 ft (35.93m) below TOC  
Water elevation: 154.73 ft (47.16m) msl

Time: 11:59

**WELL FSB 78B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 119.36 ft (36.38m) below TOC  
Water elevation: 153.44 ft (46.77m) msl

Time: 11:58

**WELL FSB 78C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 71.1 ft (21.67m) below TOC  
Water elevation: 202.4 ft (61.69m) msl

Time: 11:49

**WELL FSB 79**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 27.26 ft (8.31m) below TOC  
Water elevation: 190.54 ft (58.08m) msl

Time: 17:13

**WELL FSB 79A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 61.45 ft (18.73m) below TOC  
Water elevation: 156.65 ft (47.75m) msl

Time: 17:25

**WELL FSB 79B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 61.22 ft (18.66m) below TOC  
Water elevation: 156.98 ft (47.85m) msl

Time: 17:25

**WELL FSB 79C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 25.47 ft (7.76m) below TOC  
Water elevation: 192.93 ft (58.81m) msl

Time: 17:16

**WELL FSB 87A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 135.11 ft (41.18m) below TOC  
Water elevation: 152.69 ft (46.54m) msl

Time: 17:25

**WELL FSB 87B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 138.14 ft (42.11m) below TOC  
Water elevation: 149.36 ft (45.53m) msl

Time: 17:26

**WELL FSB 87C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 80.75 ft (24.61m) below TOC  
Water elevation: 206.75 ft (63.02m) msl

Time: 17:26

**WELL FSB 87D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 76.45 ft (23.30m) below TOC  
Water elevation: 210.85 ft (64.27m) msl

Time: 17:26

**WELL FSB 88C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 71.78 ft (21.88m) below TOC  
Water elevation: 211.22 ft (64.38m) msl

Time: 14:46

**WELL FSB 88D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 66.76 ft (20.35m) below TOC  
Water elevation: 215.64 ft (65.73m) msl

Time: 14:47



**WELL FSB 89C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 70.66 ft (21.54m) below TOC  
Water elevation: 210.64 ft (64.20m) msl

Time: 14:42

**WELL FSB 89D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 66.41 ft (20.24m) below TOC  
Water elevation: 214.79 ft (65.47m) msl

Time: 9:01

**WELL FSB 90C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 69.32 ft (21.13m) below TOC  
Water elevation: 209.08 ft (63.73m) msl

Time: 14:32

**WELL FSB 90D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: Not available  
Water elevation: Not available

Time: 15:17

**WELL FSB 91C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 69.71 ft (21.25m) below TOC  
Water elevation: 209.59 ft (63.88m) msl

Time: 14:30

**WELL FSB 91D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 66.91 ft (20.39m) below TOC  
Water elevation: 212.29 ft (64.71m) msl

Time: 15:22

**WELL FSB 92C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 68.71 ft (20.94m) below TOC  
Water elevation: 206.99 ft (63.09m) msl

Time: 14:23

**WELL FSB 92D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 66.14 ft (20.16m) below TOC  
Water elevation: 209.76 ft (63.94m) msl

Time: 10:00

**WELL FSB 93C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 70.87 ft (21.60m) below TOC  
Water elevation: 205.33 ft (62.59m) msl

Time: 14:17

**WELL FSB 93D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 68.37 ft (20.84m) below TOC  
Water elevation: 207.73 ft (63.32m) msl

Time: 14:09

**WELL FSB 94C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 76.62 ft (23.35m) below TOC  
Water elevation: 204.48 ft (62.33m) msl

Time: 12:02

**WELL FSB 94DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 75.91 ft (23.14m) below TOC  
Water elevation: 204.59 ft (62.36m) msl

Time: 15:57

**WELL FSB 95CR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 82.77 ft (25.23m) below TOC  
Water elevation: 201.23 ft (61.34m) msl

Time: 15:29

**WELL FSB 95DR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 78.44 ft (23.91m) below TOC  
Water elevation: 205.66 ft (62.69m) msl

Time: 15:31

**WELL FSB 96AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 129.43 ft (39.45m) below TOC  
Water elevation: 151.77 ft (46.26m) msl

Time: 17:27

**WELL FSB 97A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 135.24 ft (41.22m) below TOC  
Water elevation: 150.86 ft (45.98m) msl

Time: 17:27



**WELL FSB 97C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 81.79 ft (24.93m) below TOC  
Water elevation: 204.31 ft (62.27m) msl

Time: 17:28

**WELL FSB 97D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 78.49 ft (23.92m) below TOC  
Water elevation: 207.51 ft (63.25m) msl

Time: 16:04

**WELL FSB 98AR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 133.74 ft (40.76m) below TOC  
Water elevation: 150.26 ft (45.80m) msl

Time: 17:28

**WELL FSB 98C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 78.21 ft (23.84m) below TOC  
Water elevation: 206.29 ft (62.88m) msl

Time: 16:09

**WELL FSB 98D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 74.62 ft (22.74m) below TOC  
Water elevation: 209.88 ft (63.97m) msl

Time: 17:28

**WELL FSB 99A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 138.28 ft (42.15m) below TOC  
Water elevation: 149.32 ft (45.51m) msl

Time: 17:28

**WELL FSB 99C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 79.33 ft (24.18m) below TOC  
Water elevation: 208.37 ft (63.51m) msl

Time: 17:29

**WELL FSB 99D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 74.65 ft (22.75m) below TOC  
Water elevation: 212.95 ft (64.91m) msl

Time: 17:29

**WELL FSB100A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 136.04 ft (41.47m) below TOC  
Water elevation: 149.96 ft (45.71m) msl

Time: 11:03

**WELL FSB100PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 37.96 ft (11.57m) below TOC  
Water elevation: 192.04 ft (58.53m) msl

Time: 17:30

**WELL FSB100PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 51.51 ft (15.70m) below TOC  
Water elevation: 201.39 ft (61.38m) msl

Time: 17:31

**WELL FSB101A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 134.86 ft (41.11m) below TOC  
Water elevation: 150.34 ft (45.82m) msl

Time: 11:09

**WELL FSB102C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 7.76 ft (2.37m) below TOC  
Water elevation: 193.34 ft (58.93m) msl

Time: 17:32

**WELL FSB103C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 47.7 ft (14.54m) below TOC  
Water elevation: 194.7 ft (59.35m) msl

Time: 17:32

**WELL FSB104C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 24.55 ft (7.48m) below TOC  
Water elevation: 194.55 ft (59.30m) msl

Time: 17:32

**WELL FSB104D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 22.91 ft (6.98m) below TOC  
Water elevation: 196.29 ft (59.83m) msl

Time: 17:33



**WELL FSB105C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 83.1 ft (25.33m) below TOC  
Water elevation: 202.7 ft (61.78m) msl

Time: 17:33

**WELL FSB105DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 78.17 ft (23.83m) below TOC  
Water elevation: 207.43 ft (63.23m) msl

Time: 17:34

**WELL FSB106C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 37.59 ft (11.46m) below TOC  
Water elevation: 197.51 ft (60.20m) msl

Time: 16:55

**WELL FSB106D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: Not available  
Water elevation: Not available

Time: 16:54

**WELL FSB107C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 62.02 ft (18.90m) below TOC  
Water elevation: 208.88 ft (63.67m) msl

Time: 14:39

**WELL FSB107D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 58.38 ft (17.79m) below TOC  
Water elevation: 212.62 ft (64.81m) msl

Time: 16:24

**WELL FSB108D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 82.23 ft (25.06m) below TOC  
Water elevation: 215.77 ft (65.77m) msl

Time: 12:54

**WELL FSB109D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 79.05 ft (24.09m) below TOC  
Water elevation: 214.05 ft (65.24m) msl

Time: 12:46

**WELL FSB110C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 38.55 ft (11.75m) below TOC  
Water elevation: 195.95 ft (59.73m) msl

Time: 17:34

**WELL FSB110D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 36.11 ft (11.01m) below TOC  
Water elevation: 198.39 ft (60.47m) msl

Time: 17:03

**WELL FSB111C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 65.59 ft (19.99m) below TOC  
Water elevation: 210.71 ft (64.23m) msl

Time: 14:52

**WELL FSB111D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 62.12 ft (18.93m) below TOC  
Water elevation: 214.48 ft (65.37m) msl

Time: 14:50

**WELL FSB112A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 77.34 ft (23.57m) below TOC  
Water elevation: 151.76 ft (46.26m) msl

Time: 17:34

**WELL FSB112C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 33.62 ft (10.25m) below TOC  
Water elevation: 195.48 ft (59.58m) msl

Time: 17:35

**WELL FSB112D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 31.37 ft (9.56m) below TOC  
Water elevation: 198.23 ft (60.42m) msl

Time: 17:36

**WELL FSB113A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 63.34 ft (19.31m) below TOC  
Water elevation: 159.86 ft (48.73m) msl

Time: 17:36



**WELL FSB113C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 23.65 ft (7.21m) below TOC  
Water elevation: 199.25 ft (60.73m) msl

Time: 17:36

**WELL FSB113D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 18.94 ft (5.77m) below TOC  
Water elevation: 203.56 ft (62.05m) msl

Time: 17:37

**WELL FSB114A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 98.04 ft (29.88m) below TOC  
Water elevation: 153.96 ft (46.93m) msl

Time: 11:24

**WELL FSB114C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.86 ft (12.45m) below TOC  
Water elevation: 211.34 ft (64.42m) msl

Time: 11:22

**WELL FSB114D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 37.16 ft (11.33m) below TOC  
Water elevation: 215.04 ft (65.54m) msl

Time: 11:19

**WELL FSB115C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 24.02 ft (7.32m) below TOC  
Water elevation: 183.78 ft (56.02m) msl

Time: 13:08

**WELL FSB115D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.82 ft (5.74m) below TOC  
Water elevation: 189.68 ft (57.82m) msl

Time: 13:08

**WELL FSB116C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 14.76 ft (4.50m) below TOC  
Water elevation: 187.74 ft (57.22m) msl

Time: 13:02

**WELL FSB116D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 13.49 ft (4.11m) below TOC  
Water elevation: 189.41 ft (57.73m) msl

Time: 13:03

**WELL FSB117D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 31.56 ft (9.62m) below TOC  
Water elevation: 199.14 ft (60.70m) msl

Time: 17:37

**WELL FSB118D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 34.22 ft (10.43m) below TOC  
Water elevation: 209.08 ft (63.73m) msl

Time: 17:39

**WELL FSB119D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: Not available  
Water elevation: Not available

Time: 16:54

**WELL FSB120A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 132.18 ft (40.29m) below TOC  
Water elevation: 147.92 ft (45.09m) msl

Time: 12:32

**WELL FSB120C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 78.74 ft (24.00m) below TOC  
Water elevation: 200.96 ft (61.25m) msl

Time: 12:32

**WELL FSB120D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 76.57 ft (23.34m) below TOC  
Water elevation: 203.93 ft (62.16m) msl

Time: 12:32

**WELL FSB121C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 58.14 ft (17.72m) below TOC  
Water elevation: 198.36 ft (60.46m) msl

Time: 12:39



**WELL FSB121DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 54.31 ft (16.55m) below TOC  
Water elevation: 201.19 ft (61.32m) msl

Time: 12:37

**WELL FSB122C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 23.62 ft (7.20m) below TOC  
Water elevation: 194.38 ft (59.25m) msl

Time: 17:39

**WELL FSB122D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 20.46 ft (6.24m) below TOC  
Water elevation: 197.14 ft (60.09m) msl

Time: 17:40

**WELL FSB123C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 29.82 ft (9.09m) below TOC  
Water elevation: 208.28 ft (63.48m) msl

Time: 17:40

**WELL FSB123D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 27.83 ft (8.48m) below TOC  
Water elevation: 210.27 ft (64.09m) msl

Time: 17:40

**WELL FSB150PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 43 ft (13.11m) below TOC  
Water elevation: 193.8 ft (59.07m) msl

Time: 17:41

**WELL FSB150PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
Depth to water: 57.46 ft (17.51m) below TOC  
Water elevation: 201.94 ft (61.55m) msl

Time: 17:41

**WELL FSL 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 90.06 ft (27.45m) below TOC  
Water elevation: 220.74 ft (67.28m) msl

Time: 10:00

**WELL FSL 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 84.46 ft (25.74m) below TOC  
Water elevation: 221.34 ft (67.47m) msl

Time: 9:54

**WELL FSL 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 83.42 ft (25.43m) below TOC  
Water elevation: 218.58 ft (66.62m) msl

Time: 10:06

**WELL FSL 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 81.02 ft (24.70m) below TOC  
Water elevation: 213.08 ft (64.95m) msl

Time: 10:08

**WELL FSL 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 74.71 ft (22.77m) below TOC  
Water elevation: 217.09 ft (66.17m) msl

Time: 10:11

**WELL FSL 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 69.55 ft (21.20m) below TOC  
Water elevation: 216.65 ft (66.04m) msl

Time: 10:16

**WELL FSL 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 71.62 ft (21.83m) below TOC  
Water elevation: 215.98 ft (65.83m) msl

Time: 10:20

**WELL FSL 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 75.08 ft (22.88m) below TOC  
Water elevation: 215.72 ft (65.75m) msl

Time: 10:39

**WELL FSL 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 70.48 ft (21.48m) below TOC  
Water elevation: 215.42 ft (65.66m) msl

Time: 10:41



**WELL FSL 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 57.16 ft (17.42m) below TOC  
Water elevation: 209.64 ft (63.90m) msl

Time: 9:59

**WELL FSL 11C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 90.74 ft (27.66m) below TOC  
Water elevation: 209.96 ft (64.00m) msl

Time: 10:02

**WELL FSS 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 45.46 ft (13.86m) below TOC  
Water elevation: 220.54 ft (67.22m) msl

Time: 9:39

**WELL FSS 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 41.43 ft (12.63m) below TOC  
Water elevation: 220.17 ft (67.11m) msl

Time: 9:35

**WELL FSS 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.29 ft (12.28m) below TOC  
Water elevation: 217.91 ft (66.42m) msl

Time: 9:34

**WELL FSS 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 76.5 ft (23.32m) below TOC  
Water elevation: 215.3 ft (65.62m) msl

Time: 9:45

**WELL HIW 1MD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 34.41 ft (10.49m) below TOC  
Water elevation: 240.19 ft (73.21m) msl

Time: 11:28

**WELL HIW 1PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 37.19 ft (11.34m) below TOC  
Water elevation: 239.21 ft (72.91m) msl

Time: 11:29

**WELL HIW 2A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 112.11 ft (34.17m) below TOC  
Water elevation: 165.89 ft (50.56m) msl

Time: 11:29

**WELL HIW 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 42.83 ft (13.05m) below TOC  
Water elevation: 234.97 ft (71.62m) msl

Time: 11:30

**WELL HIW 2MC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 41.69 ft (12.71m) below TOC  
Water elevation: 229.21 ft (69.86m) msl

Time: 11:30

**WELL HIW 3MC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 44.85 ft (13.67m) below TOC  
Water elevation: 229.15 ft (69.85m) msl

Time: 11:30

**WELL HIW 4MC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 37.23 ft (11.35m) below TOC  
Water elevation: 227.97 ft (69.49m) msl

Time: 11:31

**WELL HIW 5MC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40 ft (12.19m) below TOC  
Water elevation: 228.2 ft (69.56m) msl

Time: 11:31

**WELL HMD 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 59.84 ft (18.24m) below TOC  
Water elevation: 204.66 ft (62.38m) msl

Time: 17:01

**WELL HMD 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 65.63 ft (20.00m) below TOC  
Water elevation: 195.47 ft (59.58m) msl

Time: 17:02



**WELL HMD 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 62.7 ft (19.11m) below TOC  
Water elevation: 196.8 ft (59.99m) msl

Time: 17:03

**WELL HMD 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 53.85 ft (16.41m) below TOC  
Water elevation: 197.05 ft (60.06m) msl

Time: 17:03

**WELL HSB 0PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 17.93 ft (5.47m) below TOC  
Water elevation: 211.87 ft (64.58m) msl

Time: 13:40

**WELL HSB 0PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 19 ft (5.79m) below TOC  
Water elevation: 214.1 ft (65.26m) msl

Time: 11:31

**WELL HSB 25PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 17.57 ft (5.36m) below TOC  
Water elevation: 211.93 ft (64.60m) msl

Time: 13:40

**WELL HSB 25PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.4 ft (5.61m) below TOC  
Water elevation: 214.1 ft (65.26m) msl

Time: 11:32

**WELL HSB 50PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 19.77 ft (6.03m) below TOC  
Water elevation: 211.93 ft (64.60m) msl

Time: 13:41

**WELL HSB 50PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.24 ft (5.56m) below TOC  
Water elevation: 214.06 ft (65.25m) msl

Time: 11:32

**WELL HSB 65**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 34.48 ft (10.51m) below TOC  
Water elevation: 237.52 ft (72.40m) msl

Time: 11:25

**WELL HSB 65A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 103.63 ft (31.59m) below TOC  
Water elevation: 169.97 ft (51.81m) msl

Time: 11:26

**WELL HSB 65B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 49.55 ft (15.10m) below TOC  
Water elevation: 224.15 ft (68.32m) msl

Time: 11:26

**WELL HSB 65C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 35.18 ft (10.72m) below TOC  
Water elevation: 238.42 ft (72.67m) msl

Time: 11:26

**WELL HSB 66**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 69.36 ft (21.14m) below TOC  
Water elevation: 210.84 ft (64.26m) msl

Time: 11:33

**WELL HSB 67**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 15.39 ft (4.69m) below TOC  
Water elevation: 222.41 ft (67.79m) msl

Time: 11:33

**WELL HSB 68**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 33.4 ft (10.18m) below TOC  
Water elevation: 216.7 ft (66.05m) msl

Time: 13:41

**WELL HSB 68A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 78.81 ft (24.02m) below TOC  
Water elevation: 170.59 ft (52.00m) msl

Time: 13:42



**WELL HSB 68B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 35.24 ft (10.74m) below TOC  
Water elevation: 214.76 ft (65.46m) msl

Time: 13:42

**WELL HSB 68C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 34.81 ft (10.61m) below TOC  
Water elevation: 215.29 ft (65.62m) msl

Time: 13:42

**WELL HSB 69**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 21.6 ft (6.58m) below TOC  
Water elevation: 214.4 ft (65.35m) msl

Time: 13:43

**WELL HSB 69A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 65.83 ft (20.07m) below TOC  
Water elevation: 170.77 ft (52.05m) msl

Time: 13:43

**WELL HSB 70**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 23.74 ft (7.24m) below TOC  
Water elevation: 219.06 ft (66.77m) msl

Time: 13:43

**WELL HSB 70C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 24.43 ft (7.45m) below TOC  
Water elevation: 218.67 ft (66.65m) msl

Time: 13:44

**WELL HSB 71**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 26.82 ft (8.17m) below TOC  
Water elevation: 214.58 ft (65.40m) msl

Time: 13:45

**WELL HSB 71C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 22.58 ft (6.88m) below TOC  
Water elevation: 219.02 ft (66.76m) msl

Time: 13:45

**WELL HSB 83A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 65.35 ft (19.92m) below TOC  
Water elevation: 171.95 ft (52.41m) msl

Time: 11:33

**WELL HSB 83B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 14.93 ft (4.55m) below TOC  
Water elevation: 222.07 ft (67.69m) msl

Time: 11:34

**WELL HSB 83C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 13.04 ft (3.97m) below TOC  
Water elevation: 224.06 ft (68.29m) msl

Time: 11:34

**WELL HSB 83D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 12.9 ft (3.93m) below TOC  
Water elevation: 224.1 ft (68.31m) msl

Time: 11:34

**WELL HSB 84A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 58.23 ft (17.75m) below TOC  
Water elevation: 170.47 ft (51.96m) msl

Time: 13:46

**WELL HSB 84B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 20.41 ft (6.22m) below TOC  
Water elevation: 208.49 ft (63.55m) msl

Time: 13:46

**WELL HSB 84C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 18.47 ft (5.63m) below TOC  
Water elevation: 210.63 ft (64.20m) msl

Time: 13:47

**WELL HSB 84D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 14.81 ft (4.51m) below TOC  
Water elevation: 213.99 ft (65.22m) msl

Time: 13:47



**WELL HSB 85A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 126.85 ft (38.66m) below TOC  
Water elevation: 167.55 ft (51.07m) msl

Time: 11:34

**WELL HSB 85B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 62.48 ft (19.04m) below TOC  
Water elevation: 232.02 ft (70.72m) msl

Time: 11:35

**WELL HSB 85C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 56.21 ft (17.13m) below TOC  
Water elevation: 237.89 ft (72.51m) msl

Time: 11:35

**WELL HSB 86A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 95.23 ft (29.03m) below TOC  
Water elevation: 167.17 ft (50.95m) msl

Time: 11:27

**WELL HSB 86B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 44.34 ft (13.51m) below TOC  
Water elevation: 217.56 ft (66.31m) msl

Time: 11:27

**WELL HSB 86C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 44.65 ft (13.61m) below TOC  
Water elevation: 218.25 ft (66.52m) msl

Time: 11:27

**WELL HSB 86D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 44.8 ft (13.66m) below TOC  
Water elevation: 218.2 ft (66.51m) msl

Time: 11:28

**WELL HSB100C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 33.99 ft (10.36m) below TOC  
Water elevation: 226.21 ft (68.95m) msl

Time: 11:28

**WELL HSB100D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 23.85 ft (7.27m) below TOC  
Water elevation: 236.25 ft (72.01m) msl

Time: 11:28

**WELL HSB100PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 20.18 ft (6.15m) below TOC  
Water elevation: 209.82 ft (63.95m) msl

Time: 13:47

**WELL HSB100PD**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 12.55 ft (3.83m) below TOC  
Water elevation: 213.45 ft (65.06m) msl

Time: 11:35

**WELL HSB101C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 33.45 ft (10.20m) below TOC  
Water elevation: 225.05 ft (68.60m) msl

Time: 11:29

**WELL HSB101D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 25.96 ft (7.91m) below TOC  
Water elevation: 232.74 ft (70.94m) msl

Time: 11:29

**WELL HSB102C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 34.87 ft (10.63m) below TOC  
Water elevation: 224.13 ft (68.32m) msl

Time: 11:29

**WELL HSB102D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 29.11 ft (8.87m) below TOC  
Water elevation: 229.49 ft (69.95m) msl

Time: 11:30

**WELL HSB103C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 24.68 ft (7.52m) below TOC  
Water elevation: 222.72 ft (67.89m) msl

Time: 11:30



**WELL HSB103D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 23.47 ft (7.15m) below TOC  
Water elevation: 224.13 ft (68.32m) msl

Time: 11:30

**WELL HSB104C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 28.63 ft (8.73m) below TOC  
Water elevation: 219.27 ft (66.83m) msl

Time: 11:31

**WELL HSB104D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 25.67 ft (7.82m) below TOC  
Water elevation: 222.13 ft (67.71m) msl

Time: 11:31

**WELL HSB105C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 31.51 ft (9.60m) below TOC  
Water elevation: 217.99 ft (66.44m) msl

Time: 11:32

**WELL HSB105D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 27.25 ft (8.31m) below TOC  
Water elevation: 222.25 ft (67.74m) msl

Time: 11:32

**WELL HSB106C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 32.68 ft (9.96m) below TOC  
Water elevation: 220.22 ft (67.12m) msl

Time: 11:32

**WELL HSB106D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 29.04 ft (8.85m) below TOC  
Water elevation: 223.86 ft (68.23m) msl

Time: 11:33

**WELL HSB107C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 44.4 ft (13.53m) below TOC  
Water elevation: 217.2 ft (66.20m) msl

Time: 11:33

**WELL HSB107D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 40.64 ft (12.39m) below TOC  
Water elevation: 221.66 ft (67.56m) msl

Time: 11:33

**WELL HSB108C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 49.96 ft (15.23m) below TOC  
Water elevation: 216.24 ft (65.91m) msl

Time: 11:34

**WELL HSB108D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 46.7 ft (14.23m) below TOC  
Water elevation: 219.6 ft (66.93m) msl

Time: 11:34

**WELL HSB109C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 45.15 ft (13.76m) below TOC  
Water elevation: 216.45 ft (65.97m) msl

Time: 11:34

**WELL HSB109D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 43.1 ft (13.14m) below TOC  
Water elevation: 218.1 ft (66.48m) msl

Time: 11:39

**WELL HSB110C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 39.25 ft (11.96m) below TOC  
Water elevation: 216.45 ft (65.97m) msl

Time: 11:39

**WELL HSB110D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 38.57 ft (11.76m) below TOC  
Water elevation: 217.03 ft (66.15m) msl

Time: 11:40

**WELL HSB111C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 38.86 ft (11.84m) below TOC  
Water elevation: 217.14 ft (66.19m) msl

Time: 11:40



**WELL HSB111D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 40.31 ft (12.29m) below TOC  
Water elevation: 215.69 ft (65.74m) msl

Time: 11:40

**WELL HSB111E**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 39.91 ft (12.16m) below TOC  
Water elevation: 215.99 ft (65.83m) msl

Time: 11:41

**WELL HSB112C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 37.03 ft (11.29m) below TOC  
Water elevation: 217.87 ft (66.41m) msl

Time: 11:41

**WELL HSB112D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 37.9 ft (11.55m) below TOC  
Water elevation: 217.2 ft (66.20m) msl

Time: 11:41

**WELL HSB112E**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 38.02 ft (11.59m) below TOC  
Water elevation: 217.08 ft (66.17m) msl

Time: 11:42

**WELL HSB113C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 43.23 ft (13.18m) below TOC  
Water elevation: 217.77 ft (66.38m) msl

Time: 11:42

**WELL HSB113D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 44.12 ft (13.45m) below TOC  
Water elevation: 216.78 ft (66.08m) msl

Time: 11:42

**WELL HSB114C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 45.4 ft (13.84m) below TOC  
Water elevation: 218.4 ft (66.57m) msl

Time: 11:43

**WELL HSB114D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 46.08 ft (14.05m) below TOC  
Water elevation: 217.92 ft (66.42m) msl

Time: 11:43

**WELL HSB115C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 49.93 ft (15.22m) below TOC  
Water elevation: 219.37 ft (66.86m) msl

Time: 11:43

**WELL HSB115D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 49.95 ft (15.22m) below TOC  
Water elevation: 219.15 ft (66.80m) msl

Time: 11:43

**WELL HSB116C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 36.21 ft (11.04m) below TOC  
Water elevation: 221.29 ft (67.45m) msl

Time: 11:44

**WELL HSB116D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 35.68 ft (10.88m) below TOC  
Water elevation: 221.12 ft (67.40m) msl

Time: 11:44

**WELL HSB117A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 72.5 ft (22.10m) below TOC  
Water elevation: 164.8 ft (50.23m) msl

Time: 13:47

**WELL HSB117C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 19.71 ft (6.01m) below TOC  
Water elevation: 217.69 ft (66.35m) msl

Time: 13:48

**WELL HSB117D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 18.18 ft (5.54m) below TOC  
Water elevation: 219.42 ft (66.88m) msl

Time: 13:48



**WELL HSB118A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 81.04 ft (24.70m) below TOC  
Water elevation: 166.26 ft (50.68m) msl

Time: 13:48

**WELL HSB119A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 91.42 ft (27.87m) below TOC  
Water elevation: 165.68 ft (50.50m) msl

Time: 11:44

**WELL HSB120A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 103.22 ft (31.46m) below TOC  
Water elevation: 164.98 ft (50.29m) msl

Time: 11:45

**WELL HSB121A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 104.43 ft (31.83m) below TOC  
Water elevation: 170.17 ft (51.87m) msl

Time: 13:49

**WELL HSB122A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 101.56 ft (30.96m) below TOC  
Water elevation: 170.04 ft (51.83m) msl

Time: 13:49

**WELL HSB123A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 93.81 ft (28.59m) below TOC  
Water elevation: 171.89 ft (52.39m) msl

Time: 13:49

**WELL HSB124AR**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 96.25 ft (29.34m) below TOC  
Water elevation: 170.55 ft (51.98m) msl

Time: 13:50

**WELL HSB125C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 9.92 ft (3.02m) below TOC  
Water elevation: 221.98 ft (67.66m) msl

Time: 11:36

**WELL HSB125D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 11.83 ft (3.61m) below TOC  
Water elevation: 219.87 ft (67.02m) msl

Time: 11:36

**WELL HSB126C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 8.82 ft (2.69m) below TOC  
Water elevation: 203.78 ft (62.11m) msl

Time: 11:45

**WELL HSB126D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 8.02 ft (2.44m) below TOC  
Water elevation: 204.68 ft (62.39m) msl

Time: 11:45

**WELL HSB127C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 21.58 ft (6.58m) below TOC  
Water elevation: 204.12 ft (62.22m) msl

Time: 13:50

**WELL HSB127D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 20.19 ft (6.15m) below TOC  
Water elevation: 205.91 ft (62.76m) msl

Time: 13:50

**WELL HSB129C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 11.31 ft (3.45m) below TOC  
Water elevation: 203.79 ft (62.12m) msl

Time: 13:51

**WELL HSB129D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 8.09 ft (2.47m) below TOC  
Water elevation: 206.61 ft (62.98m) msl

Time: 13:51

**WELL HSB130C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.9 ft (5.76m) below TOC  
Water elevation: 199.4 ft (60.78m) msl

Time: 11:37



**WELL HSB130D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 19.13 ft (5.83m) below TOC  
Water elevation: 199.47 ft (60.80m) msl

Time: 11:37

**WELL HSB131C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 8.24 ft (2.51m) below TOC  
Water elevation: 203.46 ft (62.02m) msl

Time: 11:37

**WELL HSB131D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 8.15 ft (2.48m) below TOC  
Water elevation: 203.95 ft (62.16m) msl

Time: 11:38

**WELL HSB132C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 20.35 ft (6.20m) below TOC  
Water elevation: 220.15 ft (67.10m) msl

Time: 11:38

**WELL HSB132D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 24.7 ft (7.53m) below TOC  
Water elevation: 216 ft (65.84m) msl

Time: 11:38

**WELL HSB133C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 25.73 ft (7.84m) below TOC  
Water elevation: 229.87 ft (70.07m) msl

Time: 11:39

**WELL HSB133D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.99 ft (5.79m) below TOC  
Water elevation: 236.31 ft (72.03m) msl

Time: 11:39

**WELL HSB134C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.72 ft (5.71m) below TOC  
Water elevation: 219.68 ft (66.96m) msl

Time: 11:39

**WELL HSB134D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.94 ft (5.77m) below TOC  
Water elevation: 219.16 ft (66.80m) msl

Time: 11:40

**WELL HSB135C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 26.32 ft (8.02m) below TOC  
Water elevation: 205.68 ft (62.69m) msl

Time: 11:46

**WELL HSB135D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 18.8 ft (5.73m) below TOC  
Water elevation: 213.5 ft (65.08m) msl

Time: 11:46

**WELL HSB136C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 16.29 ft (4.97m) below TOC  
Water elevation: 211.61 ft (64.50m) msl

Time: 13:51

**WELL HSB136D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 13.38 ft (4.08m) below TOC  
Water elevation: 214.62 ft (65.42m) msl

Time: 13:51

**WELL HSB137C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 21.66 ft (6.60m) below TOC  
Water elevation: 214.34 ft (65.33m) msl

Time: 13:52

**WELL HSB137D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 23.29 ft (7.10m) below TOC  
Water elevation: 213.31 ft (65.02m) msl

Time: 13:52

**WELL HSB138D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 40.89 ft (12.46m) below TOC  
Water elevation: 211.51 ft (64.47m) msl

Time: 13:52



**WELL HSB139A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 61.38 ft (18.71m) below TOC  
Water elevation: 172.32 ft (52.52m) msl

Time: 13:53

**WELL HSB139C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 21.71 ft (6.62m) below TOC  
Water elevation: 212.09 ft (64.65m) msl

Time: 13:53

**WELL HSB139D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 19.82 ft (6.04m) below TOC  
Water elevation: 213.98 ft (65.22m) msl

Time: 13:53

**WELL HSB140A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 62.1 ft (18.93m) below TOC  
Water elevation: 173.8 ft (52.97m) msl

Time: 11:41

**WELL HSB140C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 30.06 ft (9.16m) below TOC  
Water elevation: 205.54 ft (62.65m) msl

Time: 11:41

**WELL HSB140D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 22.8 ft (6.95m) below TOC  
Water elevation: 213.4 ft (65.05m) msl

Time: 11:41

**WELL HSB141A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 79.1 ft (24.11m) below TOC  
Water elevation: 175.5 ft (53.49m) msl

Time: 11:42

**WELL HSB141CR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 27.87 ft (8.49m) below TOC  
Water elevation: 226.43 ft (69.02m) msl

Time: 11:42

**WELL HSB141D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 20.69 ft (6.31m) below TOC  
Water elevation: 234.11 ft (71.36m) msl

Time: 11:42

**WELL HSB142C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 6.24 ft (1.90m) below TOC  
Water elevation: 197.76 ft (60.28m) msl

Time: 11:43

**WELL HSB142D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 7.35 ft (2.24m) below TOC  
Water elevation: 196.85 ft (60.00m) msl

Time: 11:43

**WELL HSB143C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 14.84 ft (4.52m) below TOC  
Water elevation: 207.36 ft (63.20m) msl

Time: 11:43

**WELL HSB143D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 11.95 ft (3.64m) below TOC  
Water elevation: 210.95 ft (64.30m) msl

Time: 11:44

**WELL HSB144A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 66.3 ft (20.21m) below TOC  
Water elevation: 169.3 ft (51.60m) msl

Time: 13:54

**WELL HSB145C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 23.85 ft (7.27m) below TOC  
Water elevation: 211.85 ft (64.57m) msl

Time: 11:47

**WELL HSB145D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 20.45 ft (6.23m) below TOC  
Water elevation: 215.75 ft (65.76m) msl

Time: 11:47



**WELL HSB146A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 77.35 ft (23.58m) below TOC  
Water elevation: 174.25 ft (53.11m) msl

Time: 11:44

**WELL HSB146C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 43.32 ft (13.20m) below TOC  
Water elevation: 208.98 ft (63.70m) msl

Time: 11:44

**WELL HSB146D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 32.87 ft (10.02m) below TOC  
Water elevation: 220.23 ft (67.13m) msl

Time: 11:45

**WELL HSB147D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 40.1 ft (12.22m) below TOC  
Water elevation: 227.2 ft (69.25m) msl

Time: 11:45

**WELL HSB148C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 50.03 ft (15.25m) below TOC  
Water elevation: 200.87 ft (61.23m) msl

Time: 11:45

**WELL HSB148D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 39.4 ft (12.01m) below TOC  
Water elevation: 211.7 ft (64.53m) msl

Time: 11:45

**WELL HSB149D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 21.98 ft (6.70m) below TOC  
Water elevation: 218.02 ft (66.45m) msl

Time: 13:54

**WELL HSB150D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 14.31 ft (4.36m) below TOC  
Water elevation: 224.69 ft (68.49m) msl

Time: 11:46

**WELL HSB150PC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/22/01  
Depth to water: 18.32 ft (5.58m) below TOC  
Water elevation: 213.38 ft (65.04m) msl

Time: 13:54

**WELL HSB151C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 7 ft (2.13m) below TOC  
Water elevation: 206.6 ft (62.97m) msl

Time: 11:46

**WELL HSB151D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 7.85 ft (2.39m) below TOC  
Water elevation: 205.75 ft (62.71m) msl

Time: 11:46

**WELL HSB152C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 16.1 ft (4.91m) below TOC  
Water elevation: 198 ft (60.35m) msl

Time: 11:47

**WELL HSB152D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 12.75 ft (3.89m) below TOC  
Water elevation: 201.35 ft (61.37m) msl

Time: 11:47

**WELL HSL 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 26.85 ft (8.18m) below TOC  
Water elevation: 237.15 ft (72.28m) msl

Time: 11:47

**WELL HSL 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 23.64 ft (7.21m) below TOC  
Water elevation: 241.86 ft (73.72m) msl

Time: 11:48

**WELL HSL 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 18.74 ft (5.71m) below TOC  
Water elevation: 248.86 ft (75.85m) msl

Time: 11:48



**WELL HSL 4D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 13.26 ft (4.04m) below TOC  
Water elevation: 259.94 ft (79.23m) msl

Time: 11:48

**WELL HSL 5D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 11.32 ft (3.45m) below TOC  
Water elevation: 265.28 ft (80.86m) msl

Time: 11:48

**WELL HSL 6D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 22.6 ft (6.89m) below TOC  
Water elevation: 257.4 ft (78.46m) msl

Time: 11:49

**WELL HSL 7D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 27.09 ft (8.26m) below TOC  
Water elevation: 256.71 ft (78.25m) msl

Time: 11:49

**WELL HSL 8D**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 30.99 ft (9.45m) below TOC  
Water elevation: 257.71 ft (78.55m) msl

Time: 11:49

**WELL HSL 9C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 41.24 ft (12.57m) below TOC  
Water elevation: 241.36 ft (73.57m) msl

Time: 11:50

**WELL HSL 10C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 45.59 ft (13.90m) below TOC  
Water elevation: 240.31 ft (73.25m) msl

Time: 11:51

**WELL HSL 11C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 46.94 ft (14.31m) below TOC  
Water elevation: 233.66 ft (71.22m) msl

Time: 11:51

**WELL LFW 6R**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 17.91 ft (5.46m) below TOC  
Water elevation: 152.59 ft (46.51m) msl

Time: 15:11

**WELL LFW 8R**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 21.81 ft (6.65m) below TOC  
Water elevation: 148.99 ft (45.41m) msl

Time: 15:31

**WELL LFW 10A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 31.09 ft (9.48m) below TOC  
Water elevation: 150.51 ft (45.88m) msl

Time: 17:27

**WELL LFW 18**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 31.05 ft (9.46m) below TOC  
Water elevation: 152.85 ft (46.59m) msl

Time: 17:27

**WELL LFW 21**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 35.96 ft (10.96m) below TOC  
Water elevation: 149.14 ft (45.46m) msl

Time: 17:28

**WELL LFW 23R**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 20.95 ft (6.39m) below TOC  
Water elevation: 149.55 ft (45.58m) msl

Time: 16:25

**WELL LFW 31**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
Depth to water: 68.1 ft (20.76m) below TOC  
Water elevation: 161.2 ft (49.13m) msl

Time: 17:28

**WELL LFW 36R**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 22.94 ft (6.99m) below TOC  
Water elevation: 145.46 ft (44.34m) msl

Time: 15:33



**WELL LFW 41R**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 27.18 ft (8.28m) below TOC  
Water elevation: 142.52 ft (43.44m) msl

Time: 16:22

**WELL LFW 43B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 40.6 ft (12.38m) below TOC  
Water elevation: 162.4 ft (49.50m) msl

Time: 15:00

**WELL LFW 43C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 40.18 ft (12.25m) below TOC  
Water elevation: 162.42 ft (49.51m) msl

Time: 15:01

**WELL LFW 43D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 40.51 ft (12.35m) below TOC  
Water elevation: 162.39 ft (49.50m) msl

Time: 15:02

**WELL LFW 45D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 14.85 ft (4.53m) below TOC  
Water elevation: 151.45 ft (46.16m) msl

Time: 15:17

**WELL LFW 47C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 13.52 ft (4.12m) below TOC  
Water elevation: 147.88 ft (45.07m) msl

Time: 15:28

**WELL LFW 47D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 13.22 ft (4.03m) below TOC  
Water elevation: 148.48 ft (45.26m) msl

Time: 15:26

**WELL LFW 56D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 13.49 ft (4.11m) below TOC  
Water elevation: 144.61 ft (44.08m) msl

Time: 15:51

**WELL LFW 58D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 26.5 ft (8.08m) below TOC  
Water elevation: 141.1 ft (43.01m) msl

Time: 15:37

**WELL LFW 59D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 24 ft (7.32m) below TOC  
Water elevation: 143.6 ft (43.77m) msl

Time: 16:36

**WELL LFW 60C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 19.88 ft (6.06m) below TOC  
Water elevation: 137.32 ft (41.86m) msl

Time: 15:47

**WELL LFW 60D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 19.39 ft (5.91m) below TOC  
Water elevation: 137.71 ft (41.97m) msl

Time: 15:46

**WELL LFW 61D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 23 ft (7.01m) below TOC  
Water elevation: 145.3 ft (44.29m) msl

Time: 16:29

**WELL LFW 62C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 23.39 ft (7.13m) below TOC  
Water elevation: 142.11 ft (43.32m) msl

Time: 16:38

**WELL LFW 62D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 22 ft (6.71m) below TOC  
Water elevation: 142.8 ft (43.53m) msl

Time: 16:41

**WELL LFW 63B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 28.48 ft (8.68m) below TOC  
Water elevation: 139.32 ft (42.47m) msl

Time: 15:43



**WELL LFW 63C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 28.76 ft (8.77m) below TOC  
Water elevation: 139.34 ft (42.47m) msl

Time: 15:42

**WELL LFW 63D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 28.45 ft (8.67m) below TOC  
Water elevation: 139.85 ft (42.63m) msl

Time: 15:39

**WELL LFW 64C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 12.85 ft (3.92m) below TOC  
Water elevation: 139.35 ft (42.47m) msl

Time: 16:01

**WELL LFW 64D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 12.82 ft (3.91m) below TOC  
Water elevation: 139.38 ft (42.48m) msl

Time: 16:00

**WELL LFW 65B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 10.87 ft (3.31m) below TOC  
Water elevation: 137.33 ft (41.86m) msl

Time: 16:07

**WELL LFW 65C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 10.95 ft (3.34m) below TOC  
Water elevation: 137.25 ft (41.83m) msl

Time: 16:09

**WELL LFW 65D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 10.78 ft (3.29m) below TOC  
Water elevation: 137.62 ft (41.95m) msl

Time: 16:10

**WELL LFW 67B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 19.33 ft (5.89m) below TOC  
Water elevation: 138.37 ft (42.18m) msl

Time: 16:17

**WELL LFW 67C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 18.92 ft (5.77m) below TOC  
Water elevation: 138.18 ft (42.12m) msl

Time: 16:19

**WELL LFW 67D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 16.74 ft (5.10m) below TOC  
Water elevation: 140.96 ft (42.97m) msl

Time: 16:20

**WELL LFW 68C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 22.14 ft (6.75m) below TOC  
Water elevation: 138.96 ft (42.36m) msl

Time: 16:31

**WELL LFW 68D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 19.69 ft (6.00m) below TOC  
Water elevation: 141.71 ft (43.19m) msl

Time: 16:33

**WELL LFW 69C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 8.93 ft (2.72m) below TOC  
Water elevation: 137.07 ft (41.78m) msl

Time: 16:04

**WELL LFW 69D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 8.89 ft (2.71m) below TOC  
Water elevation: 137.21 ft (41.82m) msl

Time: 16:05

**WELL LFW 71B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 9.92 ft (3.02m) below TOC  
Water elevation: 137.08 ft (41.78m) msl

Time: 16:12

**WELL LFW 71C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 10.11 ft (3.08m) below TOC  
Water elevation: 137.09 ft (41.79m) msl

Time: 16:14



**WELL LFW 71D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 10.54 ft (3.21m) below TOC  
Water elevation: 136.86 ft (41.72m) msl

Time: 16:15

**WELL MCB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 109.6 ft (33.41m) below TOC  
Water elevation: 218.8 ft (66.69m) msl

Time: 19:02

**WELL MCB 5C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 148.66 ft (45.31m) below TOC  
Water elevation: 190.44 ft (58.05m) msl

Time: 19:03

**WELL MCB 6C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 140.99 ft (42.97m) below TOC  
Water elevation: 191.11 ft (58.25m) msl

Time: 19:03

**WELL MCB 7C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 148.12 ft (45.15m) below TOC  
Water elevation: 189.58 ft (57.78m) msl

Time: 19:04

**WELL MCB 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 120.08 ft (36.60m) below TOC  
Water elevation: 222.82 ft (67.92m) msl

Time: 10:00

**WELL MSB 1B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 148.88 ft (45.38m) below TOC  
Water elevation: 205.92 ft (62.77m) msl

Time: 11:19

**WELL MSB 1C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 143.21 ft (43.65m) below TOC  
Water elevation: 211.89 ft (64.58m) msl

Time: 11:20

**WELL MSB 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 129.8 ft (39.56m) below TOC  
Water elevation: 225 ft (68.58m) msl

Time: 11:20

**WELL MSB 2B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 147.59 ft (44.99m) below TOC  
Water elevation: 207.01 ft (63.10m) msl

Time: 11:20

**WELL MSB 2C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 141.86 ft (43.24m) below TOC  
Water elevation: 212.84 ft (64.87m) msl

Time: 11:21

**WELL MSB 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 128.21 ft (39.08m) below TOC  
Water elevation: 225.59 ft (68.76m) msl

Time: 11:21

**WELL MSB 3B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 11:22

**WELL MSB 3C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 146.56 ft (44.67m) below TOC  
Water elevation: 214.24 ft (65.30m) msl

Time: 11:22

**WELL MSB 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL MSB 4B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 150.15 ft (45.77m) below TOC  
Water elevation: 205.15 ft (62.53m) msl

Time: 11:23



**WELL MSB 4C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 144.41 ft (44.02m) below TOC  
Water elevation: 210.79 ft (64.25m) msl

Time: 11:24

**WELL MSB 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 131.34 ft (40.03m) below TOC  
Water elevation: 224.16 ft (68.32m) msl

Time: 11:24

**WELL MSB 5A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 13:08

**WELL MSB 5B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 141.84 ft (43.23m) below TOC  
Water elevation: 203.16 ft (61.92m) msl

Time: 13:08

**WELL MSB 5C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 127.56 ft (38.88m) below TOC  
Water elevation: 217.64 ft (66.34m) msl

Time: 13:08

**WELL MSB 6A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 13:09

**WELL MSB 6B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 142.21 ft (43.35m) below TOC  
Water elevation: 201.69 ft (61.48m) msl

Time: 13:09

**WELL MSB 6C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 125.97 ft (38.40m) below TOC  
Water elevation: 217.83 ft (66.40m) msl

Time: 13:10

**WELL MSB 7A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 121.36 ft (36.99m) below TOC  
Water elevation: 222.94 ft (67.95m) msl

Time: 13:10

**WELL MSB 7B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 141.65 ft (43.18m) below TOC  
Water elevation: 202.45 ft (61.71m) msl

Time: 13:10

**WELL MSB 7C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 127.18 ft (38.76m) below TOC  
Water elevation: 217.32 ft (66.24m) msl

Time: 13:11

**WELL MSB 8A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 11:25

**WELL MSB 8B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 140.02 ft (42.68m) below TOC  
Water elevation: 203.88 ft (62.14m) msl

Time: 11:25

**WELL MSB 8C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 128.75 ft (39.24m) below TOC  
Water elevation: 215.25 ft (65.61m) msl

Time: 11:25

**WELL MSB 9A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 153.1 ft (46.67m) below TOC  
Water elevation: 206 ft (62.79m) msl

Time: 13:12

**WELL MSB 9C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 134.61 ft (41.03m) below TOC  
Water elevation: 224.99 ft (68.58m) msl

Time: 13:12



**WELL MSB 10A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 151 ft (46.03m) below TOC  
Water elevation: 206.2 ft (62.85m) msl

Time: 19:05

**WELL MSB 10B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 148.86 ft (45.37m) below TOC  
Water elevation: 208.74 ft (63.62m) msl

Time: 19:06

**WELL MSB 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 133.2 ft (40.60m) below TOC  
Water elevation: 223.9 ft (68.25m) msl

Time: 19:06

**WELL MSB 11A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 158.18 ft (48.21m) below TOC  
Water elevation: 207.22 ft (63.16m) msl

Time: 13:13

**WELL MSB 11C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 150.11 ft (45.75m) below TOC  
Water elevation: 215.39 ft (65.65m) msl

Time: 13:13

**WELL MSB 11F**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: Not available  
Water elevation: Not available

Time: 13:13

**WELL MSB 12A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 145.17 ft (44.25m) below TOC  
Water elevation: 204.53 ft (62.34m) msl

Time: 15:05

**WELL MSB 12B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 136.63 ft (41.65m) below TOC  
Water elevation: 213.67 ft (65.13m) msl

Time: 15:06

**WELL MSB 12TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 159.89 ft (48.74m) below TOC  
Water elevation: 190.11 ft (57.95m) msl

Time: 15:06

**WELL MSB 13A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 143.81 ft (43.83m) below TOC  
Water elevation: 202.89 ft (61.84m) msl

Time: 13:14

**WELL MSB 13CC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 127.78 ft (38.95m) below TOC  
Water elevation: 219.12 ft (66.79m) msl

Time: 13:14

**WELL MSB 13D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 124.75 ft (38.02m) below TOC  
Water elevation: 222.85 ft (67.93m) msl

Time: 13:14

**WELL MSB 15A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 153 ft (46.63m) below TOC  
Water elevation: 214.7 ft (65.44m) msl

Time: 15:06

**WELL MSB 15AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 161.04 ft (49.09m) below TOC  
Water elevation: 208.16 ft (63.45m) msl

Time: 15:07

**WELL MSB 15D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 131.32 ft (40.03m) below TOC  
Water elevation: 237.18 ft (72.29m) msl

Time: 15:07

**WELL MSB 16A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 154.3 ft (47.03m) below TOC  
Water elevation: 213.2 ft (64.98m) msl

Time: 15:07



**WELL MSB 16C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 142.27 ft (43.36m) below TOC  
Water elevation: 225.33 ft (68.68m) msl

Time: 15:08

**WELL MSB 17B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 138.76 ft (42.29m) below TOC  
Water elevation: 220.44 ft (67.19m) msl

Time: 15:08

**WELL MSB 17BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 151.63 ft (46.22m) below TOC  
Water elevation: 207.37 ft (63.21m) msl

Time: 15:09

**WELL MSB 18A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 134.5 ft (41.00m) below TOC  
Water elevation: 207.4 ft (63.22m) msl

Time: 13:15

**WELL MSB 18B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
Depth to water: 125.72 ft (38.32m) below TOC  
Water elevation: 216.38 ft (65.95m) msl

Time: 13:15

**WELL MSB 19A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 19:46

**WELL MSB 19B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 88.16 ft (26.87m) below TOC  
Water elevation: 212.24 ft (64.69m) msl

Time: 19:47

**WELL MSB 19C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 69.52 ft (21.19m) below TOC  
Water elevation: 231.28 ft (70.50m) msl

Time: 19:47

**WELL MSB 20A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 141.74 ft (43.20m) below TOC  
Water elevation: 213.56 ft (65.09m) msl

Time: 14:11

**WELL MSB 20C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 14:09

**WELL MSB 21B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 139.95 ft (42.66m) below TOC  
Water elevation: 215.05 ft (65.55m) msl

Time: 14:15

**WELL MSB 21C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 129.71 ft (39.54m) below TOC  
Water elevation: 225.09 ft (68.61m) msl

Time: 14:15

**WELL MSB 21TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 164.09 ft (50.02m) below TOC  
Water elevation: 190.51 ft (58.07m) msl

Time: 14:16

**WELL MSB 24**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 147.58 ft (44.98m) below TOC  
Water elevation: 232.62 ft (70.90m) msl

Time: 19:06

**WELL MSB 24A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 162.79 ft (49.62m) below TOC  
Water elevation: 218.81 ft (66.69m) msl

Time: 19:07

**WELL MSB 25**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 19:08



**WELL MSB 25A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:08  
 Depth to water: 156.81 ft (47.80m) below TOC  
 Water elevation: 209.59 ft (63.88m) msl

**WELL MSB 26**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 15:09  
 Depth to water: 136.21 ft (41.52m) below TOC  
 Water elevation: 225.49 ft (68.73m) msl

**WELL MSB 26B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 15:10  
 Depth to water: 150.16 ft (45.77m) below TOC  
 Water elevation: 212.64 ft (64.81m) msl

**WELL MSB 27**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:08  
 Depth to water: Not available  
 Water elevation: Not available

**WELL MSB 27B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:09  
 Depth to water: 157.47 ft (48.00m) below TOC  
 Water elevation: 219.33 ft (66.85m) msl

**WELL MSB 27TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:09  
 Depth to water: 180.09 ft (54.89m) below TOC  
 Water elevation: 196.51 ft (59.90m) msl

**WELL MSB 28**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 14:22  
 Depth to water: 129.5 ft (39.47m) below TOC  
 Water elevation: 225.3 ft (68.67m) msl

**WELL MSB 28A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 14:23  
 Depth to water: 136.51 ft (41.61m) below TOC  
 Water elevation: 218.49 ft (66.60m) msl

**WELL MSB 29A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:09  
 Depth to water: 148.17 ft (45.16m) below TOC  
 Water elevation: 217.03 ft (66.15m) msl

**WELL MSB 29B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:10  
 Depth to water: 146.2 ft (44.56m) below TOC  
 Water elevation: 218.8 ft (66.69m) msl

**WELL MSB 29C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:10  
 Depth to water: 140 ft (42.67m) below TOC  
 Water elevation: 225 ft (68.58m) msl

**WELL MSB 29D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:10  
 Depth to water: 137.71 ft (41.97m) below TOC  
 Water elevation: 227.19 ft (69.25m) msl

**WELL MSB 29TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:11  
 Depth to water: 157.45 ft (47.99m) below TOC  
 Water elevation: 207.55 ft (63.26m) msl

**WELL MSB 30A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 14:33  
 Depth to water: 160.33 ft (48.87m) below TOC  
 Water elevation: 194.67 ft (59.34m) msl

**WELL MSB 30AA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 14:29  
 Depth to water: 133.91 ft (40.82m) below TOC  
 Water elevation: 219.09 ft (66.78m) msl

**WELL MSB 30B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 14:30  
 Depth to water: 133.25 ft (40.62m) below TOC  
 Water elevation: 220.25 ft (67.13m) msl



**WELL MSB 30CC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 133.95 ft (40.83m) below TOC  
Water elevation: 220.05 ft (67.07m) msl

Time: 14:32

**WELL MSB 31A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 154.2 ft (47.00m) below TOC  
Water elevation: 193.9 ft (59.10m) msl

Time: 19:50

**WELL MSB 31B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 140.79 ft (42.91m) below TOC  
Water elevation: 207.51 ft (63.25m) msl

Time: 19:50

**WELL MSB 31C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 118.97 ft (36.26m) below TOC  
Water elevation: 229.13 ft (69.84m) msl

Time: 19:51

**WELL MSB 31CC**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 19:51

**WELL MSB 32**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 33.3 ft (10.15m) below TOC  
Water elevation: 221.8 ft (67.61m) msl

Time: 19:47

**WELL MSB 32B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 47.55 ft (14.49m) below TOC  
Water elevation: 207.85 ft (63.35m) msl

Time: 19:48

**WELL MSB 32C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 42.61 ft (12.99m) below TOC  
Water elevation: 213.09 ft (64.95m) msl

Time: 19:48

**WELL MSB 33**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 19:11

**WELL MSB 33A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 52.94 ft (16.14m) below TOC  
Water elevation: 202.46 ft (61.71m) msl

Time: 19:11

**WELL MSB 33B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 49.82 ft (15.19m) below TOC  
Water elevation: 205.18 ft (62.54m) msl

Time: 19:11

**WELL MSB 33C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 46.34 ft (14.12m) below TOC  
Water elevation: 208.96 ft (63.69m) msl

Time: 19:12

**WELL MSB 33TA**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 63.36 ft (19.31m) below TOC  
Water elevation: 192.14 ft (58.56m) msl

Time: 19:12

**WELL MSB 34A**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 171.59 ft (52.30m) below TOC  
Water elevation: 212.41 ft (64.74m) msl

Time: 19:12

**WELL MSB 34B**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 163.42 ft (49.81m) below TOC  
Water elevation: 220.58 ft (67.23m) msl

Time: 19:13

**WELL MSB 34C**

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 155.13 ft (47.28m) below TOC  
Water elevation: 228.77 ft (69.73m) msl

Time: 19:13



**WELL MSB 34TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 186.27 ft (56.78m) below TOC  
Water elevation: 197.13 ft (60.09m) msl

Time: 19:13

**WELL MSB 35A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 139.21 ft (42.43m) below TOC  
Water elevation: 211.69 ft (64.52m) msl

Time: 20:31

**WELL MSB 35B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 137.42 ft (41.89m) below TOC  
Water elevation: 214.18 ft (65.28m) msl

Time: 20:31

**WELL MSB 35D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 20:32

**WELL MSB 35TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 154.68 ft (47.15m) below TOC  
Water elevation: 195.62 ft (59.63m) msl

Time: 20:32

**WELL MSB 36A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 134.86 ft (41.11m) below TOC  
Water elevation: 205.74 ft (62.71m) msl

Time: 19:14

**WELL MSB 36B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 130.87 ft (39.87m) below TOC  
Water elevation: 209.99 ft (64.01m) msl

Time: 19:14

**WELL MSB 36C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 130.87 ft (39.89m) below TOC  
Water elevation: 210.03 ft (64.02m) msl

Time: 19:14

**WELL MSB 36D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 111.88 ft (34.10m) below TOC  
Water elevation: 229.72 ft (70.02m) msl

Time: 19:15

**WELL MSB 36TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 149.27 ft (45.50m) below TOC  
Water elevation: 191.33 ft (58.32m) msl

Time: 19:15

**WELL MSB 37C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 160.9 ft (49.04m) below TOC  
Water elevation: 222.1 ft (67.70m) msl

Time: 10:00

**WELL MSB 37D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL MSB 37TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 180.07 ft (54.89m) below TOC  
Water elevation: 202.23 ft (61.64m) msl

Time: 10:00

**WELL MSB 38C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 146.19 ft (44.56m) below TOC  
Water elevation: 212.61 ft (64.80m) msl

Time: 19:15

**WELL MSB 38TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 165.35 ft (50.40m) below TOC  
Water elevation: 193.75 ft (59.06m) msl

Time: 19:16

**WELL MSB 39A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 136.85 ft (41.71m) below TOC  
Water elevation: 204.75 ft (62.41m) msl

Time: 19:38



**WELL MSB 39B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 120.81 ft (36.82m) below TOC  
Water elevation: 220.99 ft (67.36m) msl

Time: 19:42

**WELL MSB 39C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 35.61 ft (10.85m) below TOC  
Water elevation: 305.89 ft (93.24m) msl

Time: 19:44

**WELL MSB 39D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 100 ft (30.48m) below TOC  
Water elevation: 241.8 ft (73.70m) msl

Time: 19:42

**WELL MSB 39TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 134.25 ft (40.92m) below TOC  
Water elevation: 207.55 ft (63.26m) msl

Time: 19:43

**WELL MSB 40A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 121.8 ft (37.13m) below TOC  
Water elevation: 199.4 ft (60.78m) msl

Time: 19:41

**WELL MSB 41B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 111.15 ft (33.88m) below TOC  
Water elevation: 212.85 ft (64.88m) msl

Time: 10:00

**WELL MSB 41C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 111.2 ft (33.89m) below TOC  
Water elevation: 213.4 ft (65.05m) msl

Time: 10:00

**WELL MSB 41D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 84.03 ft (25.61m) below TOC  
Water elevation: 240.97 ft (73.45m) msl

Time: 10:00

**WELL MSB 41TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 121.18 ft (36.94m) below TOC  
Water elevation: 202.52 ft (61.73m) msl

Time: 10:00

**WELL MSB 42A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 251.82 ft (76.76m) below TOC  
Water elevation: 124.68 ft (38.00m) msl

Time: 10:00

**WELL MSB 42B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 144 ft (43.89m) below TOC  
Water elevation: 232.4 ft (70.84m) msl

Time: 10:00

**WELL MSB 42C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 152.63 ft (46.52m) below TOC  
Water elevation: 223.77 ft (68.21m) msl

Time: 10:00

**WELL MSB 42D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 150.22 ft (45.79m) below TOC  
Water elevation: 226.18 ft (68.94m) msl

Time: 10:00

**WELL MSB 42TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 170 ft (51.82m) below TOC  
Water elevation: 206.6 ft (62.97m) msl

Time: 10:00

**WELL MSB 43A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 133.69 ft (40.75m) below TOC  
Water elevation: 224.01 ft (68.28m) msl

Time: 19:16

**WELL MSB 43B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 133.34 ft (40.64m) below TOC  
Water elevation: 224.46 ft (68.42m) msl

Time: 19:17



**WELL MSB 43D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:17  
 Depth to water: 131.46 ft (40.07m) below TOC  
 Water elevation: 226.54 ft (69.05m) msl

**WELL MSB 43TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:17  
 Depth to water: 158.53 ft (48.32m) below TOC  
 Water elevation: 198.97 ft (60.65m) msl

**WELL MSB 44A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 165 ft (50.29m) below TOC  
 Water elevation: 211.9 ft (64.59m) msl

**WELL MSB 45A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 20:33  
 Depth to water: 171.14 ft (52.16m) below TOC  
 Water elevation: 209.66 ft (63.91m) msl

**WELL MSB 45B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 20:33  
 Depth to water: 162.31 ft (49.47m) below TOC  
 Water elevation: 218.59 ft (66.63m) msl

**WELL MSB 45C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 20:33  
 Depth to water: Not available  
 Water elevation: Not available

**WELL MSB 46A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 162.36 ft (49.49m) below TOC  
 Water elevation: 210.24 ft (64.08m) msl

**WELL MSB 46B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 147.73 ft (45.03m) below TOC  
 Water elevation: 225.87 ft (68.85m) msl

**WELL MSB 46C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: Not available  
 Water elevation: Not available

**WELL MSB 47B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:18  
 Depth to water: 149.51 ft (45.57m) below TOC  
 Water elevation: 219.19 ft (66.81m) msl

**WELL MSB 47C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:18  
 Depth to water: 142.03 ft (43.29m) below TOC  
 Water elevation: 226.97 ft (69.18m) msl

**WELL MSB 47D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 20:34  
 Depth to water: 139.98 ft (42.67m) below TOC  
 Water elevation: 228.82 ft (69.75m) msl

**WELL MSB 47TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 20:34  
 Depth to water: 157.5 ft (48.01m) below TOC  
 Water elevation: 211.2 ft (64.37m) msl

**WELL MSB 48A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:18  
 Depth to water: 144.29 ft (43.98m) below TOC  
 Water elevation: 217.31 ft (66.24m) msl

**WELL MSB 48B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:18  
 Depth to water: 142.68 ft (43.49m) below TOC  
 Water elevation: 218.72 ft (66.67m) msl

**WELL MSB 48C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:19  
 Depth to water: 143.07 ft (43.61m) below TOC  
 Water elevation: 219.23 ft (66.82m) msl



**WELL MSB 48D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 135.17 ft (41.20m) below TOC  
Water elevation: 227.43 ft (69.32m) msl

Time: 19:19

**WELL MSB 48TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 144.69 ft (44.10m) below TOC  
Water elevation: 217.21 ft (66.21m) msl

Time: 19:19

**WELL MSB 49A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 141.47 ft (43.12m) below TOC  
Water elevation: 193.23 ft (58.90m) msl

Time: 19:20

**WELL MSB 49B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 135.81 ft (41.40m) below TOC  
Water elevation: 198.29 ft (60.44m) msl

Time: 19:20

**WELL MSB 49D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 110.76 ft (33.76m) below TOC  
Water elevation: 223.54 ft (68.14m) msl

Time: 19:20

**WELL MSB 50B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 22.67 ft (6.91m) below TOC  
Water elevation: 201.03 ft (61.27m) msl

Time: 10:00

**WELL MSB 51B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 60.33 ft (18.39m) below TOC  
Water elevation: 202.87 ft (61.84m) msl

Time: 10:00

**WELL MSB 51D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 54.42 ft (16.59m) below TOC  
Water elevation: 207.78 ft (63.33m) msl

Time: 10:00

**WELL MSB 52B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 106.47 ft (32.45m) below TOC  
Water elevation: 215.23 ft (65.60m) msl

Time: 10:00

**WELL MSB 52D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 88.73 ft (27.05m) below TOC  
Water elevation: 232.87 ft (70.98m) msl

Time: 10:00

**WELL MSB 53B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 127.58 ft (38.89m) below TOC  
Water elevation: 216.72 ft (66.06m) msl

Time: 10:00

**WELL MSB 53C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 127.62 ft (38.90m) below TOC  
Water elevation: 217.58 ft (66.32m) msl

Time: 10:00

**WELL MSB 53D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 116.7 ft (35.57m) below TOC  
Water elevation: 228.1 ft (69.53m) msl

Time: 10:00

**WELL MSB 54B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 156.11 ft (47.58m) below TOC  
Water elevation: 217.29 ft (66.23m) msl

Time: 19:20

**WELL MSB 54C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 151.93 ft (46.31m) below TOC  
Water elevation: 221.47 ft (67.50m) msl

Time: 19:21

**WELL MSB 54D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 19:21



**WELL MSB 54TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:21  
 Depth to water: 158.65 ft (48.36m) below TOC  
 Water elevation: 214.85 ft (65.49m) msl

**WELL MSB 55B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:22  
 Depth to water: 151.97 ft (46.32m) below TOC  
 Water elevation: 216.73 ft (66.06m) msl

**WELL MSB 55C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:23  
 Depth to water: 145.37 ft (44.31m) below TOC  
 Water elevation: 224.03 ft (68.29m) msl

**WELL MSB 55D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:23  
 Depth to water: Not available  
 Water elevation: Not available

**WELL MSB 55HC**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:23  
 Depth to water: 141.12 ft (43.01m) below TOC  
 Water elevation: 227.58 ft (69.37m) msl

**WELL MSB 55TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:24  
 Depth to water: 159.03 ft (48.47m) below TOC  
 Water elevation: 209.67 ft (63.91m) msl

**WELL MSB 56D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:24  
 Depth to water: 52.89 ft (16.12m) below TOC  
 Water elevation: 226.61 ft (69.07m) msl

**WELL MSB 59D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 11:26  
 Depth to water: 134.87 ft (41.11m) below TOC  
 Water elevation: 224.43 ft (68.41m) msl

**WELL MSB 62B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 13:16  
 Depth to water: 144.31 ft (43.99m) below TOC  
 Water elevation: 204.79 ft (62.42m) msl

**WELL MSB 62C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 13:16  
 Depth to water: 131.06 ft (39.95m) below TOC  
 Water elevation: 218.04 ft (66.46m) msl

**WELL MSB 62D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 13:17  
 Depth to water: 125.58 ft (38.28m) below TOC  
 Water elevation: 223.92 ft (68.25m) msl

**WELL MSB 63B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 11:27  
 Depth to water: 142.4 ft (43.40m) below TOC  
 Water elevation: 204.5 ft (62.33m) msl

**WELL MSB 63C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 11:27  
 Depth to water: 131.76 ft (40.16m) below TOC  
 Water elevation: 215.24 ft (65.61m) msl

**WELL MSB 63D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 11:27  
 Depth to water: 122.8 ft (37.43m) below TOC  
 Water elevation: 224 ft (68.28m) msl

**WELL MSB 64C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 13:17  
 Depth to water: 131.11 ft (39.96m) below TOC  
 Water elevation: 217.29 ft (66.23m) msl

**WELL MSB 64D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01 Time: 13:18  
 Depth to water: 126.82 ft (38.66m) below TOC  
 Water elevation: 221.78 ft (67.60m) msl



**WELL MSB 65D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: Not available  
 Water elevation: Not available

Time: 19:24

**WELL MSB 66B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 170.14 ft (51.86m) below TOC  
 Water elevation: 213.26 ft (65.00m) msl

Time: 19:25

**WELL MSB 66C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 160.78 ft (49.01m) below TOC  
 Water elevation: 222.62 ft (67.86m) msl

Time: 19:25

**WELL MSB 66TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 180.83 ft (55.12m) below TOC  
 Water elevation: 201.87 ft (61.53m) msl

Time: 19:25

**WELL MSB 67D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: Not available  
 Water elevation: Not available

Time: 10:00

**WELL MSB 68B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 143.59 ft (43.77m) below TOC  
 Water elevation: 213.31 ft (65.02m) msl

Time: 10:00

**WELL MSB 68C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 138.02 ft (42.07m) below TOC  
 Water elevation: 218.68 ft (66.65m) msl

Time: 10:00

**WELL MSB 69B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 166.15 ft (50.64m) below TOC  
 Water elevation: 215.35 ft (65.64m) msl

Time: 19:26

**WELL MSB 69C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 159.69 ft (48.67m) below TOC  
 Water elevation: 221.91 ft (67.64m) msl

Time: 19:26

**WELL MSB 69D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 154.06 ft (46.96m) below TOC  
 Water elevation: 227.94 ft (69.48m) msl

Time: 19:26

**WELL MSB 69TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 170.95 ft (52.11m) below TOC  
 Water elevation: 210.45 ft (64.15m) msl

Time: 19:27

**WELL MSB 70C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
 Depth to water: 149.51 ft (45.57m) below TOC  
 Water elevation: 212.29 ft (64.71m) msl

Time: 15:10

**WELL MSB 70D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/24/01  
 Depth to water: 146.16 ft (44.55m) below TOC  
 Water elevation: 216.04 ft (65.85m) msl

Time: 15:11

**WELL MSB 71B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 133.32 ft (40.64m) below TOC  
 Water elevation: 211.38 ft (64.43m) msl

Time: 19:27

**WELL MSB 72B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 131.7 ft (40.14m) below TOC  
 Water elevation: 196.5 ft (59.89m) msl

Time: 10:00

**WELL MSB 73B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 142.69 ft (43.49m) below TOC  
 Water elevation: 196.91 ft (60.02m) msl

Time: 19:27



**WELL MSB 74B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:49  
 Depth to water: 107.17 ft (32.67m) below TOC  
 Water elevation: 207.33 ft (63.19m) msl

**WELL MSB 74C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:49  
 Depth to water: 107.25 ft (32.69m) below TOC  
 Water elevation: 207.75 ft (63.32m) msl

**WELL MSB 74D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:49  
 Depth to water: 87.29 ft (26.61m) below TOC  
 Water elevation: 227.81 ft (69.44m) msl

**WELL MSB 75B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:45  
 Depth to water: 120.43 ft (36.71m) below TOC  
 Water elevation: 206.27 ft (62.87m) msl

**WELL MSB 75C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:45  
 Depth to water: 121.4 ft (37.00m) below TOC  
 Water elevation: 206.1 ft (62.82m) msl

**WELL MSB 76C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 13:53  
 Depth to water: 136.68 ft (41.66m) below TOC  
 Water elevation: 215.72 ft (65.75m) msl

**WELL MSB 77B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01 Time: 17:38  
 Depth to water: 140.87 ft (42.94m) below TOC  
 Water elevation: 216.33 ft (65.94m) msl

**WELL MSB 77C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01 Time: 17:43  
 Depth to water: 138.89 ft (42.33m) below TOC  
 Water elevation: 218.31 ft (66.54m) msl

**WELL MSB 77D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01 Time: 17:47  
 Depth to water: 129.19 ft (39.38m) below TOC  
 Water elevation: 228.21 ft (69.56m) msl

**WELL MSB 78DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01 Time: 13:58  
 Depth to water: 144.54 ft (44.06m) below TOC  
 Water elevation: 219.16 ft (66.80m) msl

**WELL MSB 79B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 144.96 ft (44.18m) below TOC  
 Water elevation: 202.94 ft (61.86m) msl

**WELL MSB 79C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 142.35 ft (43.39m) below TOC  
 Water elevation: 205.45 ft (62.62m) msl

**WELL MSB 81B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 10:00  
 Depth to water: 51.47 ft (15.69m) below TOC  
 Water elevation: 215.53 ft (65.69m) msl

**WELL MSB 82A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:28  
 Depth to water: 157.93 ft (48.14m) below TOC  
 Water elevation: 216.37 ft (65.95m) msl

**WELL MSB 82B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:28  
 Depth to water: 159.66 ft (48.66m) below TOC  
 Water elevation: 214.54 ft (65.39m) msl

**WELL MSB 82C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01 Time: 19:28  
 Depth to water: 151.48 ft (46.17m) below TOC  
 Water elevation: 222.42 ft (67.79m) msl



**WELL MSB 82D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 145.87 ft (44.46m) below TOC  
Water elevation: 227.73 ft (69.41m) msl

Time: 19:28

**WELL MSB 82TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 163.81 ft (49.93m) below TOC  
Water elevation: 209.89 ft (63.98m) msl

Time: 19:29

**WELL MSB 83B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 154.94 ft (47.23m) below TOC  
Water elevation: 216.86 ft (66.10m) msl

Time: 19:29

**WELL MSB 83C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 148.93 ft (45.39m) below TOC  
Water elevation: 223.07 ft (67.99m) msl

Time: 19:30

**WELL MSB 83TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 160.58 ft (48.95m) below TOC  
Water elevation: 211.12 ft (64.35m) msl

Time: 19:30

**WELL MSB 84A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 168.61 ft (51.39m) below TOC  
Water elevation: 192.89 ft (58.79m) msl

Time: 19:30

**WELL MSB 84C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 137.27 ft (41.84m) below TOC  
Water elevation: 224.63 ft (68.47m) msl

Time: 19:31

**WELL MSB 85B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 164.17 ft (50.04m) below TOC  
Water elevation: 216.13 ft (65.88m) msl

Time: 19:31

**WELL MSB 85C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 161.67 ft (49.28m) below TOC  
Water elevation: 219.23 ft (66.82m) msl

Time: 19:32

**WELL MSB 85D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 153.23 ft (46.71m) below TOC  
Water elevation: 227.57 ft (69.36m) msl

Time: 19:32

**WELL MSB 85TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 104.76 ft (31.93m) below TOC  
Water elevation: 275.64 ft (84.02m) msl

Time: 19:32

**WELL MSB 86C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 136.87 ft (41.72m) below TOC  
Water elevation: 220.13 ft (67.10m) msl

Time: 19:34

**WELL MSB 87B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 122.54 ft (37.35m) below TOC  
Water elevation: 213.46 ft (65.06m) msl

Time: 20:35

**WELL MSB 87C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 100.33 ft (30.58m) below TOC  
Water elevation: 236.27 ft (72.02m) msl

Time: 20:35

**WELL MSB 88B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 39.3 ft (11.98m) below TOC  
Water elevation: 198.8 ft (60.59m) msl

Time: 19:44

**WELL MSB 89B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00



**WELL MSB 89C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 114.51 ft (34.90m) below TOC  
Water elevation: 225.29 ft (68.67m) msl

Time: 10:00

**WELL MSB 90C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 118.98 ft (36.27m) below TOC  
Water elevation: 226.42 ft (69.01m) msl

Time: 19:35

**WELL MSB 90TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 141.97 ft (43.27m) below TOC  
Water elevation: 203.03 ft (61.88m) msl

Time: 19:35

**WELL MSB 91C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: Not available  
Water elevation: Not available

Time: 10:00

**WELL MSB 92C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
Depth to water: 115.04 ft (35.06m) below TOC  
Water elevation: 224.76 ft (68.51m) msl

Time: 19:35

**WELL SRW 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 108.05 ft (32.93m) below TOC  
Water elevation: 207.15 ft (63.14m) msl

Time: 13:32

**WELL SRW 1BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 114.15 ft (34.79m) below TOC  
Water elevation: 202.15 ft (61.62m) msl

Time: 13:32

**WELL SRW 2A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 119.24 ft (36.34m) below TOC  
Water elevation: 201.36 ft (61.38m) msl

Time: 13:27

**WELL SRW 2B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 118.21 ft (36.03m) below TOC  
Water elevation: 202.39 ft (61.69m) msl

Time: 13:28

**WELL SRW 3A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 123.98 ft (37.79m) below TOC  
Water elevation: 208.12 ft (63.44m) msl

Time: 13:21

**WELL SRW 3BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 129.11 ft (39.35m) below TOC  
Water elevation: 203.19 ft (61.93m) msl

Time: 13:23

**WELL SRW 4BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 118.65 ft (36.16m) below TOC  
Water elevation: 201.95 ft (61.56m) msl

Time: 13:43

**WELL SRW 8BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 90.5 ft (27.58m) below TOC  
Water elevation: 199 ft (60.66m) msl

Time: 12:55

**WELL SRW 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 69.98 ft (21.33m) below TOC  
Water elevation: 183.42 ft (55.91m) msl

Time: 12:48

**WELL SRW 9A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 59.25 ft (18.06m) below TOC  
Water elevation: 194.05 ft (59.15m) msl

Time: 12:49

**WELL SRW 10BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 102.71 ft (31.31m) below TOC  
Water elevation: 200.09 ft (60.99m) msl

Time: 13:35



**WELL SRW 11BB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 96.05 ft (29.28m) below TOC  
Water elevation: 200.45 ft (61.10m) msl

Time: 13:40

**WELL SRW 12A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 46.71 ft (14.24m) below TOC  
Water elevation: 189.59 ft (57.79m) msl

Time: 12:41

**WELL SRW 12C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 46.73 ft (14.24m) below TOC  
Water elevation: 189.57 ft (57.78m) msl

Time: 12:43

**WELL SRW 13A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 101.15 ft (30.83m) below TOC  
Water elevation: 196.55 ft (59.91m) msl

Time: 12:57

**WELL SRW 13B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 99.45 ft (30.31m) below TOC  
Water elevation: 198.25 ft (60.43m) msl

Time: 12:58

**WELL SRW 13C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 93.29 ft (28.44m) below TOC  
Water elevation: 204.41 ft (62.30m) msl

Time: 12:59

**WELL SRW 14A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 128.95 ft (39.30m) below TOC  
Water elevation: 198.05 ft (60.37m) msl

Time: 13:04

**WELL SRW 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 126.82 ft (38.66m) below TOC  
Water elevation: 200.08 ft (60.99m) msl

Time: 13:07

**WELL SRW 15A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 115.25 ft (35.13m) below TOC  
Water elevation: 203.85 ft (62.13m) msl

Time: 13:12

**WELL SRW 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 115.14 ft (35.10m) below TOC  
Water elevation: 203.96 ft (62.17m) msl

Time: 13:16

**WELL SRW 15C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 112 ft (34.14m) below TOC  
Water elevation: 207.1 ft (63.12m) msl

Time: 13:15

**WELL SRW 16A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 138.57 ft (42.24m) below TOC  
Water elevation: 208.23 ft (63.47m) msl

Time: 12:33

**WELL SRW 16B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 137.89 ft (42.03m) below TOC  
Water elevation: 208.91 ft (63.68m) msl

Time: 12:32

**WELL SRW 16C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: 137.25 ft (41.83m) below TOC  
Water elevation: 209.35 ft (63.81m) msl

Time: 12:28

**WELL SRW 19**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/23/01  
Depth to water: Not available  
Water elevation: Not available

Time: 11:11



*NOTES*



## Appendix B. Analytical Results

This section presents the field and analytical results for all samples that were collected and underwent verification and validation during second quarter 2001. The results tables are presented in alphabetical order by well series and in numerical order within each series. The **Site Index** section of this report contains the area name(s) for each series.

The tabular data contain all field and analytical results for well samples collected during this quarter. Results of laboratory analyses on sampling blanks are in **Appendix C** of this report.

Due to space limitations, the following abbreviations are used in the analytical and sampling blanks results tables.

<i><b>Method or Analyte</b></i>	<i><b>Abbreviation</b></i>
EICHROMTC1M	EICHROM
MMES16009MOD	MMES16009
ASTMD888-92B	ASTMD888
EICHROMSRW01M	EICHROMS
5-day biochemical oxygen demand	5-day biochem oxygen demand
ESESOPM008	ESOPM008
ESESOPM017	ESOPM017
ESESOPM020	ESOPM020
ESESOPM022	ESOPM022
ESESOPM029	ESOPM029
ESESOPM030	ESOPM030
ESESOPM031	ESOPM031
ESESOPM032	ESOPM032

The **Field Notes** section of this report contains information about the inability to collect samples, unusual conditions during sample collection, and samplers' observations.

Properly defined and used modifiers or qualifiers can be a key component in assessing data usability. Modifiers designated by EPD/EMS and provided to the primary laboratories are defined below.

<i><b>Key to the Tables</b></i>	
E	exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$ )
EMS	EMS codes
F	Flag
FG	EPA functional guideline codes
Fibers/L	fibers per liter



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**Key to the Tables**

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µi/mL	microcuries per milliliter
g/L	micrograms per liter
µ/cm	microsiemens per centimeter
mg/L	milligrams per liter
msl	mean sea level
NTU	nephelometric turbidity units
S	EPA STORET codes
SQL	sample quantitation limit
TOC	top of casing

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**EPA Functional  
Guideline Codes****Definition**

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(Blank)	Data not remarked. The analytical result is acceptable for use as reported.
J	The analyte was positively identified; the associated numerical value is an estimated concentration of the analyte in the sample.
N	The analysis indicated the presence of an analyte for which there is presumptive evidence to make a tentative identification. Use for all TIC results.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. Assignment of <i>R</i> requires approval by the appropriate WSRC data validation coordinator.
U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. The reported quantitation limit is approximate, and may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

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**EPA STORET Codes****Definition**

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(Blank)	Data not remarked.
A	The result is the mean of two or more results.
B†	The result is based on colony counts outside the acceptance range.
C	The result is calculated.

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**Appendix B. Analytical Results**



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**EPA STORET Codes    Definition**

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D	Field measurement.
E†	Extra samples were taken at composite stations.
F	Indicates female of the species.
G	The result reported is the maximum of two or more results.
H	The result is from a field kit determination and may not be accurate.
I	The result is less than the ssEQL, but equal to or greater than the MDL.
J◆	The result is estimated.
K	The actual concentration is known to be less than the reported result.
L	The actual concentration is known to be greater than the reported result.
M	Indicates male of the species.
N◆	There is presumptive evidence of the presence of the analyte.
O	The sample was received by the laboratory, but the analysis was lost or not found.
P†	Too numerous to count.
Q	The sample was held beyond the normal holding time prior to analysis.
R†	There was significant rain in the past 48 hours.
S	Laboratory test.
T†	The result is less than the criteria of detection.
U	Undetermined sex of the species.
V	The analyte was detected in both the method blank and the sample.
W†	The result is less than the lowest reportable under <i>T</i> STORET code.
X†	The value is from a quasi-vertically integrated sample.
Y	The result is from an unpreserved or incorrectly preserved sample; the data may not be accurate.
Z†	There were too many colonies present to count (TNTC); the numeric value represents the filtration volume.

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† The code is not currently used for EMS/EGG programs, but may be used in the future or in some other SRS programs.

◆ Indicated STORET code or secondary code definition is redundant to a Functional Guideline code and will not be used at this time.

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**EMS Codes    Definition**

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(Blank)	Data not remarked. The analytical result is acceptable for use as reported.
A	Compound identification criteria were not met.

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## *Appendix B. Analytical Results*



<b>EMS Codes</b>	<b>Definition</b>
B	Not currently used.
C	LCS or BS criteria were not met.
D	ICP serial dilution criteria were not met.
E	Not currently used.
F	Not currently used.
G	Not currently used.
H	Internal standard criteria were not met when the IS was used for quantitation.
I	Matrix spike recovery was not within the control limits.
K	A tentatively identified compound is a suspected aldol-condensation product.
L	Initial or continuing calibration criteria were not met.
M	Not currently used.
N	Not currently used.
O	Surrogate or tracer spike recovery is out of specification.
P	Graphite furnace atomic absorption QC <ul style="list-style-type: none"> <li>a. Duplication injection criteria were not met.</li> <li>b. Post-digestion spike recovery was not within control limits and the sample absorbance is &gt;50% of the post-digestion spike absorbance.</li> </ul>
Q	Not currently used.
R	Not currently used.
S	The sample was analyzed by the method of standard additions.
T	Not currently used.
U	Not currently used.
V	Not currently used.
W	Graphite furnace atomic absorption QC: the post-digestion spike recovery is not within control limits and the sample absorbance is <50% of the post-digestion spike absorbance.
X	The laboratory duplicate RPD or MS/MSD RPD was not within control limits.
Y	Not currently used.
Z	Not currently used.
4	Matrix interference is present.
6	The analyte was detected in both the sample and associated field blank.
7	The analyte was detected in both the sample and associated rinsate.
8	The analyte was detected in both the sample and associated trip blank.
9	The field duplicate RPD was not within control limits.

## *Appendix B. Analytical Results*



## Field Qualifiers

Sample interference field qualifiers were added to the field data in the analytical results tables beginning fourth quarter 1996. The qualifiers describe sampling interferences encountered during sample collection that could affect analytical results. They are used to qualify analytical data based on field conditions. Due to space limitations, the sample interference field qualifiers are referred to as *field qualifiers* in the following table and in the field data section of the analytical results tables.

<i>Field Qualifiers</i>	<i>Definition</i>
A	The pump was surging excessively. Aeration could cause oxidation reactions and loss of volatiles (low results). Analytical results may be of poor precision (high variability) due to sampling bias. The sample qualifier shall include an <i>A</i> if the site code is an <i>A</i> .
B	If the method code for a sample is <i>B</i> , then the sample qualifier shall include a <i>B</i> . This indicates that an open bucket bailer was used to collect the sample, which typically agitates the sample, increasing aeration and suspended solids. All analytical results may be of poor precision, volatile organic results may be biased low, and some metal and radionuclide results may be biased high.
C	Analytical results may be unrepresentative of true values due to reactions with metal well casing. This value will be automatically filled in if the casing type in the well inventory table is <i>Al</i> , <i>CS</i> , <i>Iron</i> , <i>SS</i> , or <i>Steel</i> . Analytical results for some metals and radionuclides may be higher or lower than actual groundwater concentrations.
G	If the method code for a sample is <i>G</i> , then the sample qualifier shall include a <i>G</i> . This indicates that an open bucket bailer was used to collect the sample without purging the well to attain stabilized field parameters. The grab sample method collects water that has undergone chemical reactions with the atmosphere and typically agitates the sample, increasing aeration and suspended solids. All analytical results may be of poor precision, volatile organic results may be biased low, and some metal and radionuclide results may be biased high. Analytical results may differ significantly for actual groundwater concentrations.
H	Analytical results may be unrepresentative of actual groundwater concentrations due to an elevated pH, possibly due to well installation materials (drilling mud, grout). Results for some inorganic constituents (i.e., sodium, metals, radionuclides) may be affected. If the pH for a sample is greater than eight, then the sample qualifier shall include an <i>H</i> .
N	Analytical results may be unrepresentative of actual groundwater concentrations due to well installation or formation interferences causing elevated turbidity. Results for particle reactive constituents (i.e., metals, radionuclides) may be elevated. If the turbidity for a sample is greater than 15 NTU, then the sample qualifier shall include an <i>N</i> .
S	If the sample method is an <i>S</i> , then the sample qualifier shall include an <i>S</i> . Single-speed centrifugal submersible pump flow rates vary from 1 to 15 gpm, and agitation of the sample may occur at higher flow rates, causing poor precision, low volatile organic results, or elevated metal or radionuclide results.
U	One or more of the field parameters (i.e., pH, conductivity, turbidity) did not stabilize prior to sample collection. The results may be of poor precision (high variability) due to sampling bias. The sample qualifier shall be a <i>U</i> if the stabilized field is <i>N</i> or the method code is <i>G</i> .
V	If the method code is a <i>V</i> , then the sample qualifier shall include a <i>V</i> . Sample collection with variable-speed pumps indicates that flow rates were less than one liter per minute. Sample collection at low flow rates provides the best estimates of actual groundwater concentrations due to reduced sampling bias.
X	If the site code is an <i>X</i> , then the sample qualifier shall include an <i>X</i> . Analytical results may be of poor precision for many constituents, and volatile organic results may be biased low because the well went dry during purging.

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## Appendix B. Analytical Results



## Calculation of Alkalinity Relationships

The results obtained from the phenolphthalein and total alkalinity determinations offer a means for stoichiometric classification of the three principal forms of alkalinity present in many waters. The classification ascribes the entire alkalinity to bicarbonate, carbonate, and hydroxide, and assumes the absence of other (weak) inorganic or organic acids, such as silicic, phosphoric, and boric acids. It further presupposes the incompatibility of hydroxide and bicarbonate alkalinities. Because the calculations are made on a stoichiometric basis, ion concentrations in the strictest sense are not represented in the results, which may differ significantly from actual concentrations, especially at pH > 10. According to this scheme:

(1) Carbonate ( $\text{CO}_3^{2-}$ ) alkalinity is present when phenolphthalein alkalinity is not zero but is less than total alkalinity.

(2) Hydroxide ( $\text{OH}^-$ ) alkalinity is present if phenolphthalein alkalinity is more than half the total alkalinity.

(3) Bicarbonate ( $\text{HCO}_3^-$ ) alkalinity is present if phenolphthalein alkalinity is less than half the total alkalinity. These relationships may be calculated by the following scheme, where  $P$  is phenolphthalein alkalinity and  $T$  is total alkalinity:

Select the smaller value of  $P$  or  $(T - P)$ . Then, carbonate alkalinity equals twice the smaller value. When the smaller value is  $P$ , the balance  $(T - 2P)$  is bicarbonate. When the smaller value is  $(T - P)$ , the balance  $(2P - T)$  is hydroxide. All results are expressed as  $\text{CaCO}_3$ .

<b><i>If Phenolphthalein Alkalinity Result =</i></b>	<b><i>then Hydroxide Alkalinity =</i></b>	<b><i>then Carbonate Alkalinity =</i></b>	<b><i>then Bicarbonate Alkalinity =</i></b>
0	0	0	Total Alk
< 1/2 Total Alk	0	2(Phen Alk)	Total Alk – 2(Phen Alk)
= 1/2 Total Alk	0	2(Phen Alk)	0
> 1/2 Total Alk	2(Phen Alk) – Total Alk	2(Total Alk – Phen Alk)	0
Phen Alk = Total Alk	Total Alk	0	0



**WELL ABP 8C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 179.8 ft (54.8 m) below TOC  
 Water elevation: 192.3 ft (58.61 m) msl  
 pH: 11.3  
 Sp. conductance: 3,395 µS/cm  
 Turbidity: Not available

Time: 14:10  
 Water temperature: 21.8°C  
 Air temperature: 29.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 624 mg/L  
 Phenolphthalein alkalinity: 638 mg/L  
 Field Qualifier(s): RCVX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Lead, total recoverable	30.5	J	I		47.0	µg/L	WA	EPA6010B

**WELL ABP 9C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 164.15 ft (50.03 m) below TOC  
 Water elevation: 188.25 ft (57.38 m) msl  
 pH: 6  
 Sp. conductance: 19 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 11:06  
 Water temperature: 21.7°C  
 Air temperature: 25.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.21	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.43	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	12.4				5.00	µg/L	WA	EPA8260B

**WELL ARP 1A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 46 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 21 gal

Time: 8:46  
 Water temperature: 18.4°C  
 Air temperature: 12.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	54.4			X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	12.6			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	361		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	371				25.0	µg/L	WA	EPA8260B

**WELL ARP 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 123.78 ft (37.73 m) below TOC  
 Water elevation: 213.52 ft (65.08 m) msl  
 pH: 5.3  
 Sp. conductance: 16 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 42 gal

Time: 13:47  
 Water temperature: 20.4°C  
 Air temperature: 23.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

**WELL ARP 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 134.69 ft (41.05 m) below TOC  
 Water elevation: 213.71 ft (65.14 m) msl  
 pH: 5.1  
 Sp. conductance: 19 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 39 gal

Time: 11:58  
 Water temperature: 20.1°C  
 Air temperature: 17.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.77	J	IL	OX	5.00	µg/L	WA	EPA8260B

**WELL ARP 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 137 ft (41.76 m) below TOC  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: 671 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 9:20  
 Water temperature: 21.5°C  
 Air temperature: 22.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
2	cis-1,2-Dichloroethylene	370	J	L	O	5.00	µg/L	WA	EPA8260B
2	cis-1,2-Dichloroethylene	264	J	L	O	100	µg/L	WA	EPA8260B
2	Tetrachloroethylene	106	J	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	1,340	J	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	1,710	J	L	O	100	µg/L	WA	EPA8260B

**WELL ARP 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 143 ft (43.59 m) below TOC  
 Water elevation: Not available  
 pH: 6.1  
 Sp. conductance: 29 µS/cm  
 Turbidity: 927 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 14:40  
 Water temperature: 20.6°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 19 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): B

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U		X	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U		X	1.00	µg/L	GE	EPA8260B

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Second Quarter 2001



Well ARP 8D collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,2-Dichloroethylene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	0.988	J	I	X	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	1.35	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.06	J	I		5.00	µg/L	WA	EPA8260B
0	Toluene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B
1	Trichloroethylene	2.51	J	K	CX	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	2.02	J	I		5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.10	J	I		5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	U		X	1.00	µg/L	GE	EPA8260B

**WELL ARP 8D Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 143 ft (43.59 m) below TOC  
 Water elevation: Not available  
 pH: 6.1  
 Sp. conductance: 29 µS/cm  
 Turbidity: 927 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 14:40  
 Water temperature: 20.6°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 19 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): B

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.02	J	I		5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.74	J	I		5.00	µg/L	WA	EPA8260B

**WELL ARP 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 134.49 ft (40.99 m) below TOC  
 Water elevation: Not available  
 pH: 5.6  
 Sp. conductance: 20 µS/cm  
 Turbidity: 824 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 13:08  
 Water temperature: 20°C  
 Air temperature: 30.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): B

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL ARP 10D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 116.57 ft (35.53 m) below TOC  
 Water elevation: Not available  
 pH: 5.7  
 Sp. conductance: 30 µS/cm  
 Turbidity: 50 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 9:31  
 Water temperature: 18.2°C  
 Air temperature: 21°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): B

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL ARP 11D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 119.91 ft (36.55 m) below TOC  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 47 µS/cm  
 Turbidity: 60 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 13:08  
 Water temperature: 20.8°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 14 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): B

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL ARP 12B1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 147.22 ft (44.87 m) below TOC  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 89 µS/cm  
 Turbidity: 74 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:11  
 Water temperature: 15.4°C  
 Air temperature: 15.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	66.6			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	42.1			X	5.00	µg/L	WA	EPA8260B



**WELL ARP 12C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 139.23 ft (42.44 m) below TOC  
 Water elevation: Not available  
 pH: 6.5  
 Sp. conductance: 118 µS/cm  
 Turbidity: 474 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:14  
 Water temperature: 15.7°C  
 Air temperature: 16°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.40	J	I	X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.14	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL ARP 12C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 140.21 ft (42.74 m) below TOC  
 Water elevation: Not available  
 pH: 5.5  
 Sp. conductance: 75 µS/cm  
 Turbidity: 2 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:04  
 Water temperature: 14.8°C  
 Air temperature: 16.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	85.9			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	55.2			X	5.00	µg/L	WA	EPA8260B

**WELL ARP 14B1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 157.31 ft (47.95 m) below TOC  
 Water elevation: Not available  
 pH: 5.4  
 Sp. conductance: 47 µS/cm  
 Turbidity: 4 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:39  
 Water temperature: 16.2°C  
 Air temperature: 16.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.47	J	I	X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	36.2			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	17.1			X	5.00	µg/L	WA	EPA8260B

**WELL ARP 14C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 156.01 ft (47.55 m) below TOC  
 Water elevation: Not available  
 pH: 6.6  
 Sp. conductance: 122 µS/cm  
 Turbidity: 18 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:10  
 Water temperature: 19.3°C  
 Air temperature: 18.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 43 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.25	J	I	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	16.4			X	5.00	µg/L	WA	EPA8260B

**WELL ARP 14C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 155.84 ft (47.5 m) below TOC  
 Water elevation: Not available  
 pH: 5.5  
 Sp. conductance: 92 µS/cm  
 Turbidity: 2 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:22  
 Water temperature: 17.5°C  
 Air temperature: 18.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	cis-1,2-Dichloroethylene	130			X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	47.9			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	545			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	653				25.0	µg/L	WA	EPA8260B

**WELL ARP 15B1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 154.3 ft (47.03 m) below TOC  
 Water elevation: Not available  
 pH: 5.6  
 Sp. conductance: 89 µS/cm  
 Turbidity: 11 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:59  
 Water temperature: 24.4°C  
 Air temperature: 19.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 4 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	10.5			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	9.42			X	5.00	µg/L	WA	EPA8260B



## WELL ARP 15C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 152.85 ft (46.59 m) below TOC  
Water elevation: Not available  
pH: 6.2  
Sp. conductance: 162 µS/cm  
Turbidity: 1 NTU  
No water was evacuated from the well prior to sampling.

Time: 14:00  
Water temperature: 21.7°C  
Air temperature: 19.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 12 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	10.3				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	9.29				5.00	µg/L	WA	EPA8260B

## WELL ARP 15C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 152.74 ft (46.56 m) below TOC  
Water elevation: Not available  
pH: 5.9  
Sp. conductance: 78 µS/cm  
Turbidity: 11 NTU  
No water was evacuated from the well prior to sampling.

Time: 13:23  
Water temperature: 22.9°C  
Air temperature: 21.7°C  
Total alkalinity (as CaCO<sub>3</sub>): 9 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	16.8			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	10.1			X	5.00	µg/L	WA	EPA8260B

## WELL BGO 1D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
Depth to water: 47.52 ft (14.48 m) below TOC  
Water elevation: 247.58 ft (75.46 m) msl  
pH: 4.9  
Sp. conductance: 43 µS/cm  
Turbidity: 10 NTU  
Water evacuated from the well prior to sampling: 5 gal  
The well went dry during purging.

Time: 12:33  
Water temperature: 27.1°C  
Air temperature: 31°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	12.3				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 1D collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	30.8				15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	10.1	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.10				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
1	Nickel, total recoverable	98.6				26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	3,300				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	328	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	65,000				50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	53,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	309	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<150	U			150	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	140				53.0	µg/L	WA	EPA6010B
0	Carbon-14	3.58E-09±1.90E-08	U			3.26E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.44E-09±3.60E-09	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	5.36E-10±2.49E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	4.66E-10±4.83E-10	U			8.72E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.18E-10±4.43E-10	U			6.66E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.46E-10±5.00E-10	U			9.86E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.51E-10±4.22E-10	U			9.43E-10	µCi/mL	GP	RADA-004
0	Tritium	9.50E-06±7.18E-07				5.79E-07	µCi/mL	ML	RADA-002
0	Tritium	9.19E-06±7.20E-07				5.94E-07	µCi/mL	ML	RADA-002

## WELL BGO 2D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
Depth to water: Not available  
Water elevation: Not available  
pH: 4.3  
Sp. conductance: 45 µS/cm  
Turbidity: 4 NTU  
Water evacuated from the well prior to sampling: 6 gal  
The well went dry during purging.

Time: 13:41  
Water temperature: 22.6°C  
Air temperature: 33.6°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	19.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 2D collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.90	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.730	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,540	U			40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.560	U	V		5.00	µg/L	WA	EPA6010B
0	Sulfate	370	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	69,000	U			50,000	µg/L	WA	EPA8260B
0	Total organic carbon	402	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<133	U			133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	7.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	9.39E-09±1.93E-08	U			3.27E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.14E-09±3.39E-09	U			1.43E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	7.09E-09±3.22E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.61E-09±7.61E-10	J	I		9.00E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.30E-10±4.39E-10	J	I		4.55E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.44E-09±5.80E-10	J	I		1.02E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.85E-10±3.89E-10	U			8.83E-10	µCi/mL	GP	RADA-004
1	Tritium	1.13E-05±7.74E-07	U			5.83E-07	µCi/mL	ML	RADA-002

## WELL BGO 3A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: 130.53 ft (39.79 m) below TOC  
 Water elevation: 161.37 ft (49.19 m) msl  
 pH: 6.7  
 Sp. conductance: 118 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 12:41  
 Water temperature: 22°C  
 Air temperature: 21.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 35 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	47.0				6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	67.1				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 3A collected on 05/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.00	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	2.40	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	23.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	5,100	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	123,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.28E-08±1.93E-08	U			3.26E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.37E-09±1.46E-09	U			1.33E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-1.62E-09±1.99E-09	U			1.13E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	5.69E-10±4.22E-10	U			5.85E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.89E-10±4.67E-10	U			8.16E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.25E-10±5.76E-10	U			1.25E-09	µCi/mL	GP	RADA-009
0	Strontium-90	4.41E-10±4.20E-10	U			8.95E-10	µCi/mL	GP	RADA-004
2	Tritium	1.19E-04±2.28E-06	U			5.60E-07	µCi/mL	ML	RADA-002
2	Tritium	1.18E-04±2.30E-06	U			5.74E-07	µCi/mL	ML	RADA-002

## WELL BGO 3C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 68.72 ft (20.95 m) below TOC  
 Water elevation: 223.18 ft (68.03 m) msl  
 pH: 5.6  
 Sp. conductance: 21 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 3 gal  
 The well went dry during purging.

Time: 9:44  
 Water temperature: 19.7°C  
 Air temperature: 26.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	4.50	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.60				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B

B-11

Second Quarter 2001



Well BGO 3C collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	8.70				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	68.3				15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	13.3	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.80	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	11.1	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	573				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.660	U	V		5.00	µg/L	WA	EPA6010B
0	Sulfate	942	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<46,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	172	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	34.2	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	5.87E-09±1.89E-08	U			3.23E-08	µCi/mL	GP	RADA-003
0	Gross alpha	8.12E-09±4.09E-09	U			1.42E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	4.03E-09±2.95E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	4.48E-10±3.70E-10	U			4.97E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.06E-09±5.18E-10	J	I		6.05E-10	µCi/mL	GP	RADA-008
0	Radium-228	5.27E-10±5.29E-10	U			1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.86E-10±3.46E-10	U			7.53E-10	µCi/mL	GP	RADA-004
1	Tritium	1.43E-05±8.62E-07	U			5.92E-07	µCi/mL	ML	RADA-002

## WELL BGO 3DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 62.35 ft (19 m) below TOC  
 Water elevation: 229.15 ft (69.85 m) msl  
 pH: 4.3  
 Sp. conductance: 29 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 8 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	40.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 3DR collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	5.00	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	51.5				15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	40.6	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.690	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.70	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,310				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.670	U	V		5.00	µg/L	WA	EPA6010B
0	Sulfate	487	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<14,000	JU	QV		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	24.7	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	24.4	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.78E-08±2.88E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.39E-09±3.56E-09	U			1.39E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-1.99E-09±2.13E-09	U			1.16E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.83E-09±7.87E-10	J	I		6.20E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	8.61E-10±6.00E-10	U			9.03E-10	µCi/mL	GP	RADA-010
2	Radium-226	9.30E-09±1.39E-09	U			7.17E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.62E-10±6.73E-10	U			1.35E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.80E-10±4.63E-10	U			1.00E-09	µCi/mL	GP	RADA-004
0	Strontium-90	-9.42E-11±5.45E-10	U			1.11E-09	µCi/mL	GP	RADA-004
2	Tritium	1.53E-03±8.11E-06	U			5.61E-07	µCi/mL	ML	RADA-002

## WELL BGO 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 69.77 ft (21.27 m) below TOC  
 Water elevation: 227.73 ft (69.41 m) msl  
 pH: 5.2  
 Sp. conductance: 28 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 26 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<4.00	U	V		7,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO3)	<4.00	U	V		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.80	J	I		8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<5.10	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 4D collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.80	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	7.00				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	12.0	J	I		24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.740	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	46.8				4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,170				114	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	444				320	µg/L	WA	EPA300.0
0	Sulfate	471				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	21,000	J		IQ	30,000	µg/L	WA	EPA160.1
0	Total dissolved solids	22,000	J		IQ	30,000	µg/L	WA	EPA160.1
0	Total organic carbon	638	J		X	1,400	µg/L	WA	EPA9060
0	Total organic halogens	6.89	J		I	57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<3.02	JU	I		8	µg/L	WA	EPA8260B
0	Trichloroethylene	<2.78	JU	I		8	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			8	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			8	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	51.7	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	4.14E-09±9.07E-09	U			1.55E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.06E-08±4.46E-09	U			1.09E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.99E-09±2.23E-09	U			1.27E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	9.63E-10±6.44E-10	J	I		8.65E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.29E-09±6.28E-10	J	I		5.26E-10	µCi/mL	GP	RADA-008

ESH-EMS-20010585

Well BGO 4D collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	1.18E-09±6.13E-10	J	I		7.10E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.08E-09±5.31E-10	J	I		1.01E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-3.46E-10±3.80E-10	U			9.48E-10	µCi/mL	GP	RADA-004
2	Tritium	4.02E-03±1.38E-05				6.37E-07	µCi/mL	ML	RADA-002

## WELL BGO 5C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 86.1 ft (26.24 m) below TOC  
 Water elevation: 210 ft (64.01 m) msl  
 pH: 6.2  
 Sp. conductance: 32 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 13:01  
 Water temperature: 25°C  
 Air temperature: 31.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	6.00	J	I		6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	6.00	J	I		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.60				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.50				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	7.20				7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	6.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.70	J	I		15.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.60	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.60	J	I		2.70	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.40	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,420				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	589				340	µg/L	WA	EPA9056
0	Sulfate	579				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B

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Second Quarter 2001



Well BGO 5C collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	56,000				50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	52,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	552	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	13.0	J	I		120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	19.5	J	I		53.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	18.8	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-5.73E-09±2.76E-08	U			4.81E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-4.00E-09±8.26E-10	U			1.46E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.05E-09±2.45E-09	U			1.19E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	2.69E-10±3.04E-10	U			5.39E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.02E-09±3.97E-10	J	I		4.22E-10	µCi/mL	GP	RADA-008
0	Radium-226	9.93E-10±3.42E-10				2.57E-10	µCi/mL	GP	RADA-008
0	Radium-228	4.53E-10±5.23E-10	U			1.12E-09	µCi/mL	GP	RADA-009
0	Radium-228	8.12E-10±5.22E-10	U			1.03E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.38E-10±4.15E-10	U			9.31E-10	µCi/mL	GP	RADA-004
2	Tritium	7.28E-05±1.77E-06				5.34E-07	µCi/mL	ML	RADA-002

## WELL BGO 5D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 69.02 ft (21.04 m) below TOC  
 Water elevation: 227.28 ft (69.28 m) msl  
 pH: 4.6  
 Sp. conductance: 54 µS/cm  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:53  
 Water temperature: 23.4°C  
 Air temperature: 36°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Gross alpha	3.40E-09±3.36E-09	JU	L	C	1.51E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.00E-10±2.52E-09	U			1.28E-08	µCi/mL	ML	RADA-001
2	Tritium	7.00E-03±1.79E-05	J	K	I	6.05E-07	µCi/mL	ML	RADA-002

## WELL BGO 5D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 69.02 ft (21.04 m) below TOC  
 Water elevation: 227.28 ft (69.28 m) msl  
 pH: 4.6  
 Sp. conductance: 54 µS/cm  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:53  
 Water temperature: 23.4°C  
 Air temperature: 36°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<2.50	U	V		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	32.1				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<8.40	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 5D collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.70		I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	61.4				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.40	J	I		24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.440	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.90	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,590				114	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	263	J	I		320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	30,000	J	Q	X	30,000	µg/L	WA	EPA160.1
0	Total organic carbon	535	J	I		1,400	µg/L	WA	EPA9060
0	Total organic halogens	12.2	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	36.2	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	-8.84E-09±1.44E-08	U			2.54E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	2.25E-09±6.12E-10				4.60E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.41E-10±4.36E-10	J	I		5.05E-10	µCi/mL	GP	RADA-008
0	Radium-226	9.46E-10±4.54E-10	J	I		4.41E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.35E-09±5.14E-10	J	I		9.20E-10	µCi/mL	GP	RADA-009
0	Radium-228	1.80E-09±5.57E-10	J	I		9.78E-10	µCi/mL	GP	RADA-009
2	Strontium-90	1.19E-08±1.13E-09				1.11E-09	µCi/mL	GP	RADA-004
2	Strontium-90	1.08E-08±1.03E-09				9.58E-10	µCi/mL	GP	RADA-004

## WELL BGO 6A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 127.55 ft (38.88 m) below TOC  
 Water elevation: 158.05 ft (48.17 m) msl  
 pH: 8.3  
 Sp. conductance: 284 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 50 gal

Time: 10:14  
 Water temperature: 20.4°C  
 Air temperature: 20.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 71 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	141				2,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	134				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	127				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	73.3				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	55.9				1.80	µg/L	WA	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	3.43	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B

B-14

Second Quarter 2001



Well BGO 6A collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0			X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O8	1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	WA	EPA9012A
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	7.91	J	IK	C5	10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	18.1	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.2
0	Nitrate-nitrite as nitrogen	<20.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	9,070	U			200	µg/L	GE	EPA9056
0	Sulfate	9,600	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<1.00	JU	L	IO8	1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	212,000	U			10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	206,000	U			10,000	µg/L	WA	EPA160.1
0	Total dissolved solids	211,000	U			50,000	µg/L	GE	EPA160.1
0	Total organic carbon	2,880	J	L	I	1,000	µg/L	GE	EPA9060
0	Total organic carbon	541	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<10.0	U			10.0	µg/L	GE	EPA9020B
0	Total organic halogens	<10.0	U			10.0	µg/L	WA	EPA9020B

ESH-EMS-20010585

Well BGO 6A collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	JU	L	O	3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	7.56	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.78E-08±2.73E-08	U			4.84E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.13E-09±1.44E-09	J	IK	I	2.06E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.21E-09±3.55E-09	U			1.63E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	2.41E-09±8.76E-10	J	I		1.75E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.60E-09±2.75E-09	U			1.25E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.99E-10±2.25E-10	J	I		2.84E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.88E-10±2.26E-10	U		6	3.11E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.55E-09±6.90E-10	JU	I	6	1.27E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.85E-10±4.83E-10	U			1.11E-09	µCi/mL	GP	RADA-004
0	Tritium	-4.21E-07±3.72E-07	U			6.57E-07	µCi/mL	GP	RADA-002
0	Tritium	-2.12E-08±2.92E-07	U			5.23E-07	µCi/mL	ML	RADA-002

## WELL BGO 6A Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
Depth to water: 127.55 ft (38.88 m) below TOC  
Water elevation: 158.05 ft (48.17 m) msl  
pH: 8.3  
Sp. conductance: 284 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 50 gal

Time: 10:14  
Water temperature: 20.4°C  
Air temperature: 20.2°C  
Total alkalinity (as CaCO<sub>3</sub>): 71 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	127				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	55.5	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	1.55	J	IL	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	12.6	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	24.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

B-1



Well BGO 6A collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	9,330				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	211,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.82E-08±2.72E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.91E-09±1.77E-09	U			1.61E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	4.31E-09±2.98E-09	U			1.25E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	2.41E-10±3.53E-10	U			7.60E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.57E-10±3.06E-10	U		6	1.97E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.14E-09±5.49E-10	JU	I	6	1.03E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.17E-10±3.50E-10	U			7.77E-10	µCi/mL	GP	RADA-004
0	Tritium	-2.18E-08±3.00E-07	U			5.37E-07	µCi/mL	ML	RADA-002

## WELL BGO 6B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 7.6  
 Sp. conductance: 150 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 114 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	69.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	40.7				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	5.20				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	565				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,620				340	µg/L	WA	EPA9056

ESH-EMS-20010585

Well BGO 6B collected on 05/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	128,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	8.00	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.79E-09±1.88E-08	U			3.24E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.29E-08±4.66E-09	U			1.35E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-2.91E-09±2.10E-09	U			1.15E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.27E-10±3.35E-10	U			5.87E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.75E-10±4.33E-10	U			6.25E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.74E-11±5.55E-10	U			1.23E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-5.91E-11±3.11E-10	U			7.62E-10	µCi/mL	GP	RADA-004
0	Tritium	6.45E-06±6.18E-07				5.69E-07	µCi/mL	ML	RADA-002

## WELL BGO 6C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 68.9 ft (21 m) below TOC  
 Water elevation: 216.7 ft (66.05 m) msl  
 pH: 6.7  
 Sp. conductance: 71 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 72 gal

Time: 11:30  
 Water temperature: 24°C  
 Air temperature: 20.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	26.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.30				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.60	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.860	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,370				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	481				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.59	J	I	X	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 6C collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	70,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,370				1,000	µg/L	WA	EPA9060
0	Total organic halogens	13.3	J	I		120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.40	J	I	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	19.6	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-6.83E-09±2.76E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.68E-09±1.65E-09	U			1.50E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.12E-10±2.30E-09	U			1.20E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	6.50E-11±2.90E-10	U			7.86E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.00E-10±2.38E-10	J	I		2.66E-10	µCi/mL	GP	RADA-008
0	Radium-228	3.83E-10±4.99E-10	U			9.92E-10	µCi/mL	GP	RADA-009
0	Strontium-90	1.21E-10±3.28E-10	U			7.53E-10	µCi/mL	GP	RADA-004
2	Tritium	1.52E-03±7.79E-06				5.13E-07	µCi/mL	ML	RADA-002

**WELL BGO 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 57.81 ft (17.62 m) below TOC  
 Water elevation: 227.69 ft (69.4 m) msl  
 pH: 5.7  
 Sp. conductance: 74 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 13:36  
 Water temperature: 26.2°C  
 Air temperature: 35.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	25.0				7,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	25.0				7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	51.5				8.30	µg/L	WA	EPA6010B
0	Benzene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Boron, total recoverable	<8.50	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Bromoform	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Bromomethane	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chlorobenzene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethane	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Chloroform	4.92	J	I		10.0	µg/L	WA	EPA8260B
0	Chloromethane	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.60	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.80	J	I		5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	19.4			X	10.0	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethylene	20.2			X	10.0	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Dichloromethane	14.3			X	10.0	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Ethylbenzene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	6.30	J	I		24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.440	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,230				114	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Phenols	3.58	J	I		34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	498				320	µg/L	WA	EPA300.0

ESH-EMS-20010585

Well BGO 6D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Tetrachloroethylene	36.8			X	10.0	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Total dissolved solids	47,000	J	Q		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,400	U			1,400	µg/L	WA	EPA9060
0	Total organic carbon	187	J	I		1,400	µg/L	WA	EPA9060
2	Total organic halogens	142				57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	2.78	J	I	X	10.0	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Trichloroethylene	180			X	10.0	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	6.67	J	I	X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Zinc, total recoverable	19.4	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	4.72E-09±9.20E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.29E-09±3.25E-09	U			1.21E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	5.28E-09±3.38E-09	U			1.34E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.02E-09±6.66E-10	J	I		9.68E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.09E-09±3.86E-10	J	I		3.28E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.43E-09±6.34E-10	J	I		1.18E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.28E-10±2.74E-10	U			6.91E-10	µCi/mL	GP	RADA-004
2	Tritium	3.00E-04±3.78E-06				6.42E-07	µCi/mL	ML	RADA-002

**WELL BGO 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 58.96 ft (17.97 m) below TOC  
 Water elevation: 228.04 ft (69.51 m) msl  
 pH: 4.3  
 Sp. conductance: 28 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 71 gal

Time: 9:49  
 Water temperature: 21°C  
 Air temperature: 23.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.00	J	I		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.60			X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	2.72	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U		X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.70	J	I	X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.09	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.80	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.450	J	I	X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	820				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	889			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 7D collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tetrachloroethylene	11.5				5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	24,000	J	IQ	X	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
1	Total organic halogens	83.6	J	I		120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	93.5				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.53E-08±2.76E-08	U			4.69E-08	µCi/mL	GP	RADA-003
0	Carbon-14	4.90E-08±2.85E-08	J	I		4.63E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-8.83E-10±2.17E-09	U			1.69E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	1.68E-09±2.63E-09	U			1.27E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	7.61E-10±6.00E-10	U			8.54E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.06E-09±4.46E-10	J	I		4.78E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.33E-09±6.13E-10	J	I		1.13E-09	µCi/mL	GP	RADA-009
0	Radium-228	1.78E-09±6.24E-10	J	I		1.08E-09	µCi/mL	GP	RADA-009
0	Strontium-90	8.85E-11±3.42E-10	U			7.72E-10	µCi/mL	GP	RADA-004
2	Tritium	2.19E-04±3.08E-06				5.69E-07	µCi/mL	ML	RADA-002

## WELL BGO 8AR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 126.5 ft (38.56 m) below TOC  
 Water elevation: 160.1 ft (48.8 m) msl  
 pH: 7.3  
 Sp. conductance: 266 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 113 gal

Time: 13:21  
 Water temperature: 20.3°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 80 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	118				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	119				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	4.80	J	I	X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	16.4			X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U		X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U		X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 8AR collected on 05/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.20			X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	38.0				20.0	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	38.0				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	7,560			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	181,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.01E-08±2.74E-08	U			4.69E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.20E-09±3.03E-09	U			1.72E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	-2.44E-09±1.80E-09	U			1.28E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	-2.20E-11±2.12E-10	U			7.08E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.18E-10±2.67E-10	U			3.33E-10	µCi/mL	GP	RADA-008
0	Radium-226	1.62E-10±2.52E-10	U			4.38E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.14E-10±4.80E-10	U			9.37E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-8.28E-10±3.46E-10	U			9.66E-10	µCi/mL	GP	RADA-004
0	Tritium	1.18E-06±3.97E-07	J	I		5.80E-07	µCi/mL	ML	RADA-002

## WELL BGO 8C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 68.25 ft (20.8 m) below TOC  
 Water elevation: 219.65 ft (66.95 m) msl  
 pH: 6.6  
 Sp. conductance: 82 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 87 gal

Time: 14:26  
 Water temperature: 20.8°C  
 Air temperature: 32.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 27 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	33.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.50			X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 8C collected on 05/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.70	J	I	X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	21.6	U		X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	J		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	2.30	J	I	X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U		X	0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	675	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	1,040	U		X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	63,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	180	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	9.90	J	I	X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	-4.03E-09±2.63E-08	U			4.59E-08	µCi/mL	GP	RADA-003
2	Gross alpha	8.17E-08±1.29E-08	U			1.63E-08	µCi/mL	ML	EPA900.0
1	Nonvolatile beta	3.98E-08±7.24E-09	U			1.24E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	2.60E-10±3.18E-10	U			5.81E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.37E-10±1.99E-10	U			2.49E-10	µCi/mL	GP	RADA-008
0	Radium-228	4.41E-10±5.41E-10	U			1.12E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.31E-10±6.03E-10	U			1.36E-09	µCi/mL	GP	RADA-004
2	Tritium	7.15E-05±1.79E-06	U			5.76E-07	µCi/mL	ML	RADA-002

## WELL BGO 8D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 59.72 ft (18.2 m) below TOC  
 Water elevation: 228.08 ft (69.52 m) msl  
 pH: 4.8  
 Sp. conductance: 28 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 40 gal

Time: 12:56  
 Water temperature: 23.1°C  
 Air temperature: 27.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.00	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.10	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 8D collected on 05/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Boron, total recoverable	29.9	J	I	X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.30	J	I	X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	125	U		X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	15.5	J	I	X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	2.20	J	I	X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U		X	0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.60	J	I	X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,120	U			40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	1,250	U		X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	57,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	255	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	35.6	J	I		120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	51.5	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	113	U		X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.43E-07±3.46E-08	U			4.62E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.37E-08±5.96E-09	U			1.73E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	1.26E-08±4.40E-09	U			1.28E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	8.41E-10±5.35E-10	J	I		7.55E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.57E-09±5.03E-10	U			4.72E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.31E-09±6.21E-10	J	I		1.18E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.79E-10±4.43E-10	U			9.62E-10	µCi/mL	GP	RADA-004
2	Tritium	1.17E-04±2.27E-06	U			5.70E-07	µCi/mL	ML	RADA-002

## WELL BGO 9D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 70.25 ft (21.41 m) below TOC  
 Water elevation: 214.85 ft (65.49 m) msl  
 pH: 5.2  
 Sp. conductance: 26 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 13:57  
 Water temperature: 24.5°C  
 Air temperature: 33.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.00	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B

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Second Quarter 2001



Well BGO 9D collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.860	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	29.1	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.300	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.10	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	747	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	657	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<38,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	174	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	4.88	J	I		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	8.80	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.49E-07±2.97E-08	U			4.10E-08	µCi/mL	GP	RADA-003
2	Gross alpha	1.60E-08±5.18E-09	J	I		1.40E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-1.39E-09±2.40E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	6.95E-10±4.89E-10	J	I		7.50E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	1.43E-09±6.66E-10	J	I		6.97E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.58E-10±3.86E-10	J	I		5.49E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.04E-09±5.40E-10	J	I		1.02E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.22E-10±3.73E-10	U			8.60E-10	µCi/mL	GP	RADA-004
2	Tritium	7.66E-05±1.87E-06	U			5.94E-07	µCi/mL	ML	RADA-002

## WELL BGO 10AR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 143.54 ft (43.75 m) below TOC  
 Water elevation: 156.96 ft (47.84 m) msl  
 pH: 7.8  
 Sp. conductance: 206 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 98 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	102				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	102				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	21.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B

ESH-EMS-20010585

Well BGO 10AR collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.730	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	11.5				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	12.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	7,960	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	185,000				50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	195,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-4.28E-09±2.83E-08	U			4.92E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.85E-09±2.71E-09	U			1.38E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-7.00E-10±2.55E-09	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.00E-10±2.03E-10	J	I		2.89E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.16E-10±3.21E-10	J	I		3.70E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.02E-10±3.30E-10	J	I		3.51E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.13E-10±6.24E-10	U			1.30E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.43E-11±4.69E-10	U			1.12E-09	µCi/mL	GP	RADA-004
0	Tritium	1.03E-06±3.77E-07	J	I		5.57E-07	µCi/mL	ML	RADA-002

## WELL BGO 10C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 84.7 ft (25.82 m) below TOC  
 Water elevation: 216.6 ft (66.02 m) msl  
 pH: 7.5  
 Sp. conductance: 201 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 80 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	93.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	17.8				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 10C collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.70	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	1.70	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.40	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.60	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	597	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	997	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	140,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	599	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	9.60	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.09E-09±1.89E-08	U			3.25E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.13E-08±4.71E-09	U			1.48E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-5.97E-09±1.65E-09	U			1.20E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.23E-10±3.25E-10	U			5.25E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.81E-10±4.68E-10	J	I		6.40E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.07E-10±4.95E-10	U			9.82E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.39E-11±3.18E-10	U			7.61E-10	µCi/mL	GP	RADA-004
0	Tritium	1.56E-06±4.25E-07	U			5.93E-07	µCi/mL	ML	RADA-002

## WELL BGO 10DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 72.85 ft (22.2 m) below TOC  
 Water elevation: 227.55 ft (69.36 m) msl  
 pH: 6.2  
 Sp. conductance: 86 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 12:53  
 Water temperature: 24°C  
 Air temperature: 32.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	37.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	43.9				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 10DR collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	1.90	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	13.1	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	9.10				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.70	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,510				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,150				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	80,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	888	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	39.4	J	I		53.0	µg/L	WA	EPA6010B
1	Carbon-14	1.07E-06±3.81E-08				3.30E-08	µCi/mL	GP	RADA-003
0	Gross alpha	8.34E-09±4.19E-09	U			1.45E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	2.15E-09±2.76E-09	U			1.19E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.53E-09±6.86E-10	J	I		7.58E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.16E-09±7.29E-10				5.98E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.07E-10±5.33E-10	U			1.05E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.60E-10±2.86E-10	U			7.30E-10	µCi/mL	GP	RADA-004
2	Tritium	2.72E-05±1.14E-06				5.87E-07	µCi/mL	ML	RADA-002

## WELL BGO 11DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 78.49 ft (23.92 m) below TOC  
 Water elevation: 226.71 ft (69.1 m) msl  
 pH: 4.5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 12:20  
 Water temperature: 22.3°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.88				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	<7.70	U			7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.76				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	<6.30	JU	I	6	8.30	µg/L	WA	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B

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Second Quarter 2001



Well BGO 11DR collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	6.77	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<11.6	J	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	J			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	J			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.10	J			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	J			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	J			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	J			5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	J			10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	J			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	0.973	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.90	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.00	J			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	<5.50	J			5.50	µg/L	WA	EPA6010B
0	Cyanide	<5.00	J			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	J			5.00	µg/L	WA	EPA9012A
0	Cyanide	<33.0	J			33.0	µg/L	GE	EPA9014
0	Dibromochloromethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	J			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.94	J	I		1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	3.58	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	J			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	0.579	J	I		1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	J			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	J			5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	J			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	J			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	J			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	J			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	J			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	J			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	J			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	J			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<24.0	J			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	5.38	J	I		10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	0.600	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	J			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.130	J	I		0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.08	J	I		5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	0.760	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,140	J			50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,960	J			285	µg/L	WA	EPA353.2
0	Phenols	<5.00	JU	QQ		5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	JU	QQ		5.00	µg/L	GE	EPA9066
0	Phenols	<34.0	JU	QQ		34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	JU			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	3.10	JU	I		31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	JU			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<6.80	JU			6.80	µg/L	WA	EPA6010B
0	Sulfate	540	JU			200	µg/L	GE	EPA9056
0	Sulfate	<538	JU			320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<1.00	JU			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	JU			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	JU			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<10.0	JU			10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<63.0	JU			63.0	µg/L	WA	EPA6010B

ESH-EMS-20010585

Well BGO 11DR collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	22,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	12,000	J	IQ		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	<200	U			200	µg/L	GE	EPA9060
0	Total organic carbon	<560	JU	I	X6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	31.9				10.0	µg/L	GE	EPA9020B
0	Total organic halogens	25.8	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	0.363	J	I		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	5.07				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-9.60E-09±1.43E-08	U			2.53E-08	µCi/mL	GP	RADA-003
0	Gross alpha	6.56E-09±1.20E-09				1.02E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	9.62E-09±4.52E-09	JU	L	C	1.45E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.85E-09±1.07E-09	J	I		2.20E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-3.19E-09±1.99E-09	U			1.25E-08	µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	3.90E-09±7.96E-10				4.86E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.65E-10±4.04E-10	U			5.70E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.05E-09±4.96E-10	J	I		9.22E-10	µCi/mL	GP	RADA-009
0	Strontium-90	1.39E-09±4.63E-10	J	I		8.25E-10	µCi/mL	GP	RADA-004
2	Tritium	6.26E-02±1.20E-09	J	K	I	3.76E-05	µCi/mL	GP	RADA-002
2	Tritium	6.16E-02±1.19E-09	J	K	I	3.72E-05	µCi/mL	GP	RADA-002
2	Tritium	6.19E-02±5.34E-05	J	K	I	6.11E-07	µCi/mL	ML	RADA-002

## WELL BGO 11DR Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 78.49 ft (23.92 m) below TOC  
 Water elevation: 226.71 ft (69.1 m) msl  
 pH: 4.5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 12:20  
 Water temperature: 22.3°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<7.70	U			7.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<7.20	JU	I	6	8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<16.1	U			20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.80	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	3.61	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 11DR collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.550	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.140	J	I		0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	0.860	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2.260				285	µg/L	WA	EPA353.2
0	Phenols	<8.33	JU	I	6	34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	<642	U		6	320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	6,000	J	IQ		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	<464	JU		X6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	27.9	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-5.89E-09±1.43E-08	U			2.51E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.26E-09±3.23E-09	JU	L	C	1.45E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	3.57E-09±2.99E-09	U			1.25E-08	µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	3.74E-09±7.81E-10				3.81E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.22E-10±3.58E-10	J	I	6	4.39E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.65E-09±5.60E-10	J	I		9.71E-10	µCi/mL	GP	RADA-009
0	Strontium-90	8.05E-10±4.21E-10	U			8.22E-10	µCi/mL	GP	RADA-004
2	Tritium	4.80E-02±4.69E-05	J	K	I	6.08E-07	µCi/mL	ML	RADA-002

## WELL BGO 12AX

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 156.91 ft (47.83 m) below TOC  
 Water elevation: 155.89 ft (47.52 m) msl  
 pH: 7.2  
 Sp. conductance: 188 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 75 gal

Time: 10:20  
 Water temperature: 21.1°C  
 Air temperature: 32.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 88 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	82.4				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	83.9				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	80.0				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	80.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	21.5				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	22.3				1.80	µg/L	WA	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	9.28	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B

Well BGO 12AX collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	0.937	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	3.10	J	I		5.00	µg/L	GE	EPA9012A
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<1.72	U	V		5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.75	J	IK	C5	10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	1.40	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<0.947	JU		4	5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	440				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	57.0				20.0	µg/L	WA	EPA353.2
0	Phenols	<5.00	JU	Q	5	5.00	µg/L	GE	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	6,880				200	µg/L	GE	EPA9056
0	Sulfate	7,050				340	µg/L	WA	EPA9056
0	Sulfate	6,940				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	140,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	135,000				50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	133,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	265				200	µg/L	GE	EPA9060
0	Total organic carbon	<320	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic carbon	<251	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<10.0	JU	Q		10.0	µg/L	GE	EPA9020B
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

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Second Quarter 2001



Well BGO 12AX collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	2.98	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.21E-08±2.79E-08	U			4.70E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.04E-09±4.60E-10	J	IK	I	8.74E-10	µCi/mL	GP	EPA900.0
0	Gross alpha	-2.02E-09±5.77E-10	U			1.47E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.49E-09±5.14E-10	J	I		1.08E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-3.10E-09±2.05E-09	U			1.45E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.96E-10±2.87E-10	U			6.22E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.02E-10±2.45E-10	J	I		2.46E-10	µCi/mL	GP	RADA-008
0	Radium-228	3.44E-10±5.26E-10	U			1.07E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.33E-10±3.86E-10	U			8.62E-10	µCi/mL	GP	RADA-004
0	Tritium	-5.54E-07±3.72E-07	U			6.64E-07	µCi/mL	GP	RADA-002
0	Tritium	-1.21E-07±3.51E-07	U			6.35E-07	µCi/mL	ML	RADA-002

## WELL BGO 12AX Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 156.91 ft (47.83 m) below TOC  
 Water elevation: 155.89 ft (47.52 m) msl  
 pH: 7.2  
 Sp. conductance: 188 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 75 gal

Time: 10:20  
 Water temperature: 21.1°C  
 Air temperature: 32.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 88 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	80.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	22.0				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.30	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	46.0				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	7,120				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	141,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<215	JU	I		6	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 12AX collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	9.31E-10±2.79E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Carbon-14	-2.14E-08±2.72E-08	U			4.84E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.12E-09±6.02E-10	U			1.54E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	7.30E-10±2.86E-09	U			1.49E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	4.73E-10±3.86E-10	U			6.42E-10	µCi/mL	GP	RADA-010
0	Radium-226	7.51E-10±3.64E-10	J	I		3.85E-10	µCi/mL	GP	RADA-008
0	Radium-228	3.93E-10±5.19E-10	U			1.05E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-3.20E-10±4.11E-10	U			1.08E-09	µCi/mL	GP	RADA-004
0	Tritium	1.70E-07±3.70E-07	U			6.36E-07	µCi/mL	ML	RADA-002

## WELL BGO 12CX

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 86.75 ft (26.44 m) below TOC  
 Water elevation: 226.55 ft (69.05 m) msl  
 pH: 5.6  
 Sp. conductance: 48 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 14:12  
 Water temperature: 24.9°C  
 Air temperature: 36.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	4.50	J	I		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	11.1				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<12.9	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.00	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	6.80				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<12.0	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.60				1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.80	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,350				285	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	2,320				285	µg/L	WA	EPA353.2
0	Phenols	4.23	J	I		34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	556				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	44,000				30,000	µg/L	WA	EPA160.1
0	Total organic carbon	341	J	I		1,400	µg/L	WA	EPA9060
2	Total organic halogens	130				57.8	µg/L	WA	EPA9020B

B-24

Second Quarter 2001



Well BGO 12CX collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	130				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<2.12	U	V		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	20.9	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.80E-09±8.83E-09	U			1.55E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.54E-09±3.36E-09	U			1.09E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-4.49E-10±2.38E-09	U			1.27E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.06E-10±3.06E-10	U			8.10E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.80E-10±3.66E-10	J	I		2.69E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.85E-10±5.15E-10	U			1.03E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-4.15E-10±3.59E-10	U			9.37E-10	µCi/mL	GP	RADA-004
2	Tritium	3.00E-04±3.75E-06				6.33E-07	µCi/mL	ML	RADA-002

## WELL BGO 12DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 96.79 ft (29.5 m) below TOC  
 Water elevation: 216.81 ft (66.08 m) msl  
 pH: 10  
 Sp. conductance: 275 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 9:52  
 Water temperature: 21.8°C  
 Air temperature: 25.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 40 mg/L  
 Phenolphthalein alkalinity: 63 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	54.0				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	53.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	56.0				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Dichloromethane	8.90				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 12DR collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	28.5				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	184				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	15,400				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	142,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	151,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	706	J	Q		1,000	µg/L	WA	EPA9060
0	Total organic carbon	733	J	Q		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.70E-08±2.79E-08	U			4.74E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.30E-09±2.15E-09	U			6.65E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.75E-09±1.97E-09	U			7.80E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.91E-10±1.09E-10	J	I		1.29E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.24E-10±2.37E-10	J	I		2.22E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.91E-10±5.54E-10	U			1.11E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.51E-10±2.56E-10	U			5.73E-10	µCi/mL	GP	RADA-004
0	Tritium	6.93E-06±6.57E-07	U			6.07E-07	µCi/mL	ML	RADA-002

## WELL BGO 13DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 92.56 ft (28.21 m) below TOC  
 Water elevation: 226.74 ft (69.11 m) msl  
 pH: 8.2  
 Sp. conductance: 68 µS/cm  
 Turbidity: 10 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 8:43  
 Water temperature: 21.2°C  
 Air temperature: 25.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 29 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	35.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	50.0				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 13DR collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	6.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.80	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	19.1	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	23.3	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	900	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	2,150	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	57,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	533	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	22.8	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-9.28E-10±2.65E-08	U			4.61E-08	µCi/mL	GP	RADA-003
0	Gross alpha	8.81E-09±4.37E-09	U			1.31E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.99E-09±3.05E-09	U			1.37E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	9.71E-10±4.63E-10	J	I		4.96E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.47E-10±3.79E-10	J	I		3.52E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.31E-10±5.98E-10	U			1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-3.37E-11±3.03E-10	U			7.41E-10	µCi/mL	GP	RADA-004
0	Tritium	8.83E-06±7.26E-07	U			6.24E-07	µCi/mL	ML	RADA-002

## WELL BGO 14AR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 143.3 ft (43.68 m) below TOC  
 Water elevation: 157.4 ft (47.98 m) msl  
 pH: 10.3  
 Sp. conductance: 416 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 98 gal

Time: 12:32  
 Water temperature: 22.2°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 83 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	83.4				1,180	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	108				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	87.7				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	67.8				1.80	µg/L	WA	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	9.26	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B

Well BGO 14AR collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.29	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	3.70	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	3.88	J	I		5.00	µg/L	GE	EPA9012A
0	Cyanide	4.52	J	I		5.00	µg/L	GE	EPA9012A
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<1.06	U	V		5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	8.80	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	32.4	J	K		10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	9.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	1.75	J	I		5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	20.4	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	420				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	420				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	306				20.0	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	306				20.0	µg/L	WA	EPA353.2
0	Phenols	<5.00	JU			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	JU		QQ	5.00	µg/L	GE	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	3,070				200	µg/L	GE	EPA9056
0	Sulfate	25,000				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	144,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	140,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	69,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	395				200	µg/L	GE	EPA9060

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Second Quarter 2001



Well BGO 14AR collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total organic carbon	449				200	µg/L	GE	EPA9060
0	Total organic carbon	<689	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<10.0	JU	Q		10.0	µg/L	GE	EPA9020B
0	Total organic halogens	<10.0	JU	Q		10.0	µg/L	GE	EPA9020B
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	0.216	J	IK	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	33.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.56E-09±2.68E-08	U			4.63E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.93E-10±5.42E-10	U			1.21E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	9.55E-09±4.73E-09	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	5.07E-09±6.79E-09	U			1.19E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.08E-09±3.18E-09	U			1.43E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.10E-09±5.22E-10	J	I		5.72E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.58E-10±4.09E-10	J	I		5.47E-10	µCi/mL	GP	RADA-008
0	Radium-228	4.58E-10±5.16E-10	U			1.04E-09	µCi/mL	GP	RADA-009
0	Strontium-90	4.69E-11±2.43E-10	U			5.21E-10	µCi/mL	GP	RADA-004
0	Tritium	4.60E-06±6.84E-07	U			9.26E-07	µCi/mL	GP	RADA-002
0	Tritium	4.40E-06±5.73E-07	U			6.28E-07	µCi/mL	ML	RADA-002

## WELL BGO 14AR Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 143.3 ft (43.68 m) below TOC  
 Water elevation: 157.4 ft (47.98 m) msl  
 pH: 10.3  
 Sp. conductance: 416 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 98 gal

Time: 12:32  
 Water temperature: 22.2°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 83 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	104				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	81.1				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	27.6				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A

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Well BGO 14AR collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	335				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	3,060				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	150,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<427	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	0.00E+00±2.79E-08	U			4.83E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.70E-11±2.07E-09	U			1.47E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-3.34E-09±2.04E-09	U			1.45E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	6.99E-10±4.38E-10	J	I		6.29E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.65E-10±2.46E-10	U			3.53E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.52E-10±5.10E-10	U			1.05E-09	µCi/mL	GP	RADA-009
0	Radium-228	4.94E-10±5.23E-10	U			1.05E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.76E-10±3.90E-10	U			8.88E-10	µCi/mL	GP	RADA-004
0	Tritium	4.31E-06±5.75E-07	U			6.38E-07	µCi/mL	ML	RADA-002

## WELL BGO 14CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 80.85 ft (24.64 m) below TOC  
 Water elevation: 219.65 ft (66.95 m) msl  
 pH: 5.3  
 Sp. conductance: 31 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 42 gal

Time: 12:05  
 Water temperature: 22.1°C  
 Air temperature: 34.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.50	J	I		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	36.3				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<17.3	U			20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.60	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.60	J	I		5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<9.73	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.10	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A

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Second Quarter 2001



Well BGO 14CR collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nickel, total recoverable	<1.80		JU		4	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,330					µg/L	WA	EPA353.2
0	Phenols	32.7	J	I			µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U				µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U				µg/L	WA	EPA6010B
0	Sulfate	1,280					µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U				µg/L	WA	EPA8260B
1	Tetrachloroethylene	4.30	J	I			µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U				µg/L	WA	EPA6010B
0	Toluene	<5.00	U		8		µg/L	WA	EPA8260B
0	Total dissolved solids	36,000					µg/L	WA	EPA160.1
0	Total organic carbon	858	J	I			µg/L	WA	EPA9060
0	Total organic halogens	27.3	J	I			µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U				µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U				µg/L	WA	EPA8260B
2	Trichloroethylene	47.0					µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<2.63	U	V			µg/L	WA	EPA8260B
0	Xylenes	<5.00	U				µg/L	WA	EPA8260B
0	Zinc, total recoverable	13.0	J	I			µg/L	WA	EPA6010B
0	Carbon-14	-2.08E-10±8.96E-09	U				µCi/mL	GP	RADA-003
0	Gross alpha	1.89E-09±2.04E-09	U				µCi/mL	ML	RADA-001
0	Nonvolatile beta	-2.39E-09±1.69E-09	U				µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	5.75E-10±5.48E-10	U				µCi/mL	GP	RADA-010
0	Radium-226	8.51E-10±3.57E-10	J	I			µCi/mL	GP	RADA-008
0	Radium-228	4.64E-10±5.11E-10	U				µCi/mL	GP	RADA-009
0	Strontium-90	3.35E-11±3.04E-10	U				µCi/mL	GP	RADA-004
2	Tritium	6.00E-04±5.29E-06					µCi/mL	ML	RADA-002

## WELL BGO 14DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 74 ft (22.56 m) below TOC  
 Water elevation: 226.3 ft (68.98 m) msl  
 pH: 4  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 40 gal

Time: 9:20  
 Water temperature: 19.4°C  
 Air temperature: 18.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	35.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X		µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X		µg/L	WA	EPA6010B
0	Barium, total recoverable	11.7			X		µg/L	WA	EPA6010B
0	Benzene	<5.00	U				µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X		µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U				µg/L	WA	EPA8260B
0	Bromoform	<5.00	U				µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U				µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X		µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U				µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U				µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U				µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U				µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U				µg/L	WA	EPA8260B
0	Chloroform	<5.00	U				µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U				µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.10	J	I	X		µg/L	WA	EPA6010B
0	Copper, total recoverable	2.20	J	I	X		µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C		µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U				µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U				µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U				µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U				µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U				µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U				µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U				µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U				µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U				µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U				µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X		µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.330	J	I	X		µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.325	J	I			µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X		µg/L	WA	EPA6010B

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Well BGO 14DR collected on 05/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nitrate-nitrite as nitrogen	542					µg/L	WA	EPA353.2
0	Phenols	<37.0	U				µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0			X		µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X		µg/L	WA	EPA6010B
0	Sulfate	1,350			X		µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U				µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U				µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X		µg/L	WA	EPA6010B
0	Toluene	<5.00	U				µg/L	WA	EPA8260B
0	Total dissolved solids	<29,000	U	V			µg/L	WA	EPA160.1
0	Total organic carbon	225	J	I			µg/L	WA	EPA9060
0	Total organic halogens	<120	U				µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U				µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U				µg/L	WA	EPA8260B
0	Trichloroethylene	1.32	J	I			µg/L	WA	EPA8260B
1	Trichlorofluoromethane	12.8					µg/L	WA	EPA8260B
0	Xylenes	<5.00	U				µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		X		µg/L	WA	EPA6010B
0	Carbon-14	6.18E-09±2.67E-08	U				µCi/mL	GP	RADA-003
0	Gross alpha	1.08E-09±2.81E-09	U				µCi/mL	ML	EPA900.0
0	Nonvolatile beta	5.15E-09±3.17E-09	U				µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	2.17E-09±7.66E-10					µCi/mL	GP	RADA-010
0	Radium-226	1.69E-09±5.48E-10					µCi/mL	GP	RADA-008
0	Radium-228	2.10E-09±6.18E-10	J	I			µCi/mL	GP	RADA-009
0	Strontium-90	-2.46E-10±4.84E-10	U				µCi/mL	GP	RADA-004
2	Tritium	1.19E-04±2.30E-06					µCi/mL	ML	RADA-002
2	Tritium	1.22E-04±2.31E-06					µCi/mL	ML	RADA-002

## WELL BGO 15D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 76.98 ft (23.46 m) below TOC  
 Water elevation: 221.72 ft (67.58 m) msl  
 pH: 5  
 Sp. conductance: 31 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 10:19  
 Water temperature: 23.5°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	2.82	J	I		2,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	2.82				2,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	2.50	J	I		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U				µg/L	GE	EPA6010B
0	Antimony, total recoverable	<20.0	U				µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U				µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<42.0	U				µg/L	WA	EPA6010B
0	Barium, total recoverable	11.6					µg/L	GE	EPA6010B
0	Barium, total recoverable	11.5					µg/L	WA	EPA6010B
0	Benzene	<1.00	U				µg/L	GE	EPA8260B
0	Benzene	<5.00	U				µg/L	WA	EPA8260B
0	Boron, total recoverable	6.24	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<8.50	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	U				µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U				µg/L	WA	EPA8260B
0	Bromoform	<1.00	U				µg/L	GE	EPA8260B
0	Bromoform	<5.00	U				µg/L	WA	EPA8260B
0	Bromomethane	<1.00	U				µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U				µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	U				µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.10	U				µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	U				µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U				µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	U				µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U				µg/L	WA	EPA8260B
0	Chloroethane	<1.00	U				µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U				µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U				µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U				µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U				µg/L	GE	EPA8260B
0	Chloroform	0.386	J	I		1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U				µg/L	WA	EPA8260B
0	Chloromethane	<1.00	U				µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U				µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 15D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.60		I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.96	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	1.80	J	I		5.50	µg/L	WA	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	0.782	J	I		1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	1.29	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	0.320	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<1.28	JU		4	5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	<0.750	JU		4	4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,180				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,250				114	µg/L	WA	EPA353.2
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<7.82	JU	I	6	34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	441				200	µg/L	GE	EPA9056
0	Sulfate	<430	U		6	320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	9.33				1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	10.8				5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	30,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	33,000				10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	<28,000	U	V		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	235				200	µg/L	GE	EPA9060
0	Total organic carbon	<177	JU	I	6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	31.4				10.0	µg/L	GE	EPA9020B
0	Total organic halogens	30.4	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	36.6				1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	38.8				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	0.616	J	I		1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	3.64	J	I		5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<4.49	JU		4	5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	5.90	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	6.42E-09±9.22E-09				1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	2.35E-09±6.89E-10				9.26E-10	µCi/mL	GP	EPA900.0
0	Gross alpha	2.01E-09±2.21E-09	U			1.00E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	3.54E-09±1.04E-09	J	I		2.14E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.98E-09±3.06E-09	U			1.21E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.36E-09±7.14E-10	J	I		8.99E-10	µCi/mL	GP	RADA-010

Well BGO 15D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	2.08E-09±5.95E-10				3.13E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.39E-10±5.12E-10	U			9.98E-10	µCi/mL	GP	RADA-009
0	Radium-228	7.55E-10±4.38E-10	U			8.48E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.92E-11±2.81E-10	U			6.63E-10	µCi/mL	GP	RADA-004
2	Tritium	7.77E-04±1.52E-05			5	2.56E-06	µCi/mL	GP	RADA-002
2	Tritium	7.34E-04±5.84E-06				6.31E-07	µCi/mL	ML	RADA-002

## WELL BGO 15D Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
Depth to water: 76.98 ft (23.46 m) below TOC  
Water elevation: 221.72 ft (67.58 m) msl  
pH: 5  
Sp. conductivity: 31 µS/cm  
Turbidity: 4 NTU  
Water evacuated from the well prior to sampling: 5 gal

Time: 10:19  
Water temperature: 23.5°C  
Air temperature: 32.5°C  
Total alkalinity (as CaCO3): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	1.50	J	I		7.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	11.6				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<6.70	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.70	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.00	J	I		5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.22	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	2.37	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.290	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<1.00	JU		4	4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,330				114	µg/L	WA	EPA353.2
0	Phenols	<7.24	JU	I	6	34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	<410	U		6	320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	10.9				5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<30,000	U			30,000	µg/L	WA	EPA160.1
0	Total organic carbon	<753	JU	I	6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	30.7	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	38.9				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	2.98	J	I		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	8.70	J	I		58.0	µg/L	WA	EPA6010B
0	Gross alpha	-1.06E-09±3.70E-10	U			1.02E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-2.94E-09±1.58E-09	U			1.23E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.44E-09±7.86E-10	J	I		9.91E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.93E-10±3.41E-10	J	I		4.41E-10	µCi/mL	GP	RADA-008



Well BGO 15D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-228	1.33E-09±4.87E-10	J	I		8.46E-10	µCi/mL	GP	RADA-009
0	Radium-228	6.00E-10±4.61E-10	U			9.40E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-6.34E-12±2.44E-10	U			5.91E-10	µCi/mL	GP	RADA-004
2	Tritium	7.76E-04±6.07E-06				6.45E-07	µCi/mL	ML	RADA-002

**WELL BGO 26A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 129 ft (39.32 m) below TOC  
 Water elevation: 158.2 ft (48.22 m) msl  
 pH: 11.2  
 Sp. conductance: 1,342 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 15:21  
 Water temperature: 20.8°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 278 mg/L  
 Phenolphthalein alkalinity: 276 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	90.0				7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	56.4				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<9.50	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.10	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<0.680	JU		4	5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	19.9				1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<2.00	JU		4	4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	586				57.0	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.810	JU		4	6.80	µg/L	WA	EPA6010B
0	Sulfate	5.860				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	224,000				30,000	µg/L	WA	EPA160.1
0	Total organic carbon	433	J	I		1,400	µg/L	WA	EPA9060
0	Total organic halogens	<57.8	U			57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.69				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	2.02	J	I		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.26E-09±8.96E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	6.52E-10±2.08E-09	U			1.32E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-7.25E-10±2.46E-09	U			1.40E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	7.81E-10±5.79E-10	U			9.21E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.86E-10±2.52E-10	J	I		3.00E-10	µCi/mL	GP	RADA-008

ESH-EMS-20010585

Well BGO 26A collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-228	1.15E-09±6.78E-10	U			1.31E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.71E-11±2.65E-10	U			6.45E-10	µCi/mL	GP	RADA-004
0	Tritium	2.12E-06±4.76E-07				6.35E-07	µCi/mL	ML	RADA-002

**WELL BGO 26D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 61.63 ft (18.79 m) below TOC  
 Water elevation: 223.87 ft (68.24 m) msl  
 pH: 7  
 Sp. conductance: 24 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 15:54  
 Water temperature: 23°C  
 Air temperature: 34.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	6.00	J	I		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.00	J	I		8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	32.1				20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.50	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	391				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<9.08	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Lead, total recoverable	51.5				24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.610	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.10	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	984				57.0	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	500				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<12,000	U	V		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	3,200				1,400	µg/L	WA	EPA9060
0	Total organic halogens	<57.8	U			57.8	µg/L	WA	EPA9020B
0	Total organic halogens	6.26	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	5.16				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.70	U	V		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	71.6				58.0	µg/L	WA	EPA6010B
0	Carbon-14	3.65E-09±9.12E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	7.15E-09±3.73E-09	U			1.08E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.93E-09±2.81E-09	U			1.26E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	6.34E-10±4.80E-10	U			6.56E-10	µCi/mL	GP	RADA-010

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Second Quarter 2001



Well BGO 26D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	9.67E-10±4.03E-10	J	I		3.86E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.81E-10±5.41E-10	U			1.05E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.57E-10±4.10E-10	U			9.14E-10	µCi/mL	GP	RADA-004
0	Strontium-90	4.63E-10±5.17E-10	U			1.10E-09	µCi/mL	GP	RADA-004
0	Tritium	5.71E-06±6.31E-07	U			6.40E-07	µCi/mL	ML	RADA-002

**WELL BGO 27C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 58.7 ft (17.89 m) below TOC  
 Water elevation: 217.3 ft (66.23 m) msl  
 pH: 7.1  
 Sp. conductance: 131 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 15:15  
 Water temperature: 20.5°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 48 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	50.0				7.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	12.0				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<6.80		V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10				4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.10	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	9.50				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Dichloromethane	7.63	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.530	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.210				114	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	465				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	81,000	J	Q		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	200	J	I		1,400	µg/L	WA	EPA9060
0	Total organic halogens	15.5	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	30.8	J	K	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	1.42	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.04E-09±8.95E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.53E-10±1.79E-09	U			1.14E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.11E-09±2.60E-09	U			1.30E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.87E-10±3.52E-10	U			6.52E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.71E-10±3.16E-10	JU	I	6	3.62E-10	µCi/mL	GP	RADA-008

ESH-EMS-20010585

Well BGO 27C collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-228	4.82E-10±4.87E-10	U			1.01E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.31E-11±2.77E-10	U			6.60E-10	µCi/mL	GP	RADA-004
2	Tritium	3.61E-04±4.09E-06				6.25E-07	µCi/mL	ML	RADA-002

**WELL BGO 27C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 58.7 ft (17.89 m) below TOC  
 Water elevation: 217.3 ft (66.23 m) msl  
 pH: 7.1  
 Sp. conductance: 131 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 15:15  
 Water temperature: 20.5°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 48 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	-4.67E-09±8.76E-09	U			1.55E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.99E-10±4.22E-10	U			9.98E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.60E-10±2.81E-10	JU	I	6	2.82E-10	µCi/mL	GP	RADA-008
0	Radium-228	4.12E-10±2.30E-10	JU	I	6	2.16E-10	µCi/mL	GP	RADA-008
0	Radium-228	5.25E-10±5.60E-10	U			1.17E-09	µCi/mL	GP	RADA-009
0	Strontium-90	8.27E-11±3.68E-10	U			8.59E-10	µCi/mL	GP	RADA-004

**WELL BGO 27D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/02/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.7  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 12:20  
 Water temperature: 21°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	4.10				1,000	mg/L	GE	SM2320B
1	Aluminum, dissolved	43.5	J	I		50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	1,730				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	12.1				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	16.4				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	691				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	743				100	µg/L	GE	EPA6010B
0	Chloride	1,660				100	µg/L	GE	EPA9056
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	9.46				5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<1,000	U			1,000	µg/L	GE	SM2320B
0	Iron, dissolved	21.3	J	I		50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	3,280				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	7.33				5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	12.5				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,030				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,130				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	13.5				10.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	24.9				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,400				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	1,400				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	1,450				100	µg/L	GE	EPA6010B
0	Sulfate	468				200	µg/L	GE	EPA9056
0	Zinc, dissolved	8.53				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	21.0				5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



## WELL BGO 27D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: Not available  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 51 gal

Time: 10:15  
 Water temperature: 19.9°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	6.03			X	2,000	mg/L	GE	SM2320B
2	Aluminum, dissolved	57.1				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	150				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	4.75	J	I		5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	1.95	J	I		5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	2.36	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	168				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	143				100	µg/L	GE	EPA6010B
0	Chloride	2,290				100	µg/L	GE	EPA300.0
0	Chloride	2,330				100	µg/L	GE	EPA9056
0	Chromium, dissolved	1.44	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.73	J	I		5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<2,000	U		X	2,000	µg/L	GE	SM2320B
0	Iron, dissolved	110				50.0	µg/L	GE	EPA6010B
1	Iron, total recoverable	268				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	229				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	244				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	4.21	J	I		10.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	3.82	J	I		10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,950				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,940				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	0.280	J	I		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	6,360				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	6,390				100	µg/L	GE	EPA6010B
0	Sulfate	868				200	µg/L	GE	EPA300.0
0	Sulfate	849				200	µg/L	GE	EPA9056
0	Zinc, dissolved	7.22				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	7.11				5.00	µg/L	GE	EPA6010B

## WELL BGO 27D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 52.45 ft (15.99 m) below TOC  
 Water elevation: 223.85 ft (68.23 m) msl  
 pH: 5.2  
 Sp. conductance: 35 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 41 gal

Time: 15:20  
 Water temperature: 26.4°C  
 Air temperature: 32.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6,700	mg/L	WA	EPA310.1
2	Aluminum, total recoverable	103	J	I		146	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.50				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B

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Well BGO 27D collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	8.40				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	7.90	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Iron, total recoverable	312				74.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.270	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,020				100	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	2,060				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	374				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<50,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	12.2	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	4.68E-10±2.80E-08	U			4.84E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.52E-10±2.48E-09	U			1.44E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-3.93E-09±1.74E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	9.01E-10±3.28E-10	J	I		2.88E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.25E-09±3.70E-10				2.96E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.06E-09±6.24E-10	U			1.25E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.02E-10±3.91E-10	U			8.81E-10	µCi/mL	GP	RADA-004
1	Tritium	1.41E-05±8.25E-07				5.37E-07	µCi/mL	ML	RADA-002

## WELL BGO 28D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 9:30  
 Water temperature: 19.8°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	40.0				2,000	mg/L	GE	SM2320B
2	Aluminum, dissolved	9,370				50.0	µg/L	GE	EPA6010B
2	Aluminum, dissolved	6,490				50.0	µg/L	GE	EPA6010B
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	4.85	J	I		5.00	µg/L	GE	EPA6010B
0	Arsenic, dissolved	8.02				5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	57.1				5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	51.5				5.00	µg/L	GE	EPA6010B

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Well BGO 28D collected on 04/03/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Barium, total recoverable	60.3				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	58.4				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<0.501	JU		4	5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<0.373	JU		4	5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	13,300				100	µg/L	GE	EPA6010B
0	Calcium, dissolved	12,600				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	17,100				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	16,800				100	µg/L	GE	EPA6010B
0	Chloride	4,640				100	µg/L	GE	EPA9056
0	Chloride	4,580				100	µg/L	GE	EPA9056
1	Chromium, dissolved	72.6				5.00	µg/L	GE	EPA6010B
1	Chromium, dissolved	68.5				5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B
2	Iron, dissolved	14,500				50.0	µg/L	GE	EPA6010B
2	Iron, dissolved	13,800				50.0	µg/L	GE	EPA6010B
1	Iron, total recoverable	231				50.0	µg/L	GE	EPA6010B
1	Iron, total recoverable	236				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	19.0				5.00	µg/L	GE	EPA6010B
0	Lead, dissolved	17.4				5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,320				20.0	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,220				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,180				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,170				20.0	µg/L	GE	EPA6010B
2	Manganese, dissolved	165				10.0	µg/L	GE	EPA6010B
2	Manganese, dissolved	158				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	74.4				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	73.8				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	0.0783	J	I		0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	34.3				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1,180				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,160				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<3.22	JU		4	5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.208	JU		4	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	3,970				100	µg/L	GE	EPA6010B
0	Sodium, dissolved	4,000				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	4,020				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	4,210				100	µg/L	GE	EPA6010B
0	Sulfate	5,330				200	µg/L	GE	EPA9056
0	Sulfate	5,350				200	µg/L	GE	EPA9056
0	Zinc, dissolved	30.6				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	196				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	188				5.00	µg/L	GE	EPA6010B

## WELL BGO 28D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 54.5 ft (16.61 m) below TOC  
 Water elevation: 222.9 ft (67.94 m) msl  
 pH: 5.6  
 Sp. conductance: 82 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 67 gal

Time: 12:46  
 Water temperature: 22.9°C  
 Air temperature: 32.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	23.1				2,000	mg/L	GE	SM2320B
0	Alkalinity (as CaCO <sub>3</sub> )	23.1				2,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	21.5				6,700	mg/L	WA	EPA310.1
2	Aluminum, dissolved	71.0				50.0	µg/L	GE	EPA6010B
2	Aluminum, dissolved	55.9	J	I		146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	203				50.0	µg/L	GE	EPA6010B

Well BGO 28D collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method	
2	Aluminum, total recoverable	198				146	µg/L	WA	EPA6010B	
2	Aluminum, total recoverable	160				146	µg/L	WA	EPA6010B	
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B	
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B	
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	5.63				5.00	µg/L	GE	EPA6010B	
0	Arsenic, total recoverable	5.90	J	I		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	4.60	J	I		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	12.4				5.00	µg/L	GE	EPA6010B	
0	Barium, dissolved	12.2				1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	8.95				5.00	µg/L	GE	EPA6010B	
0	Barium, total recoverable	13.1				1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	12.2				1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Boron, total recoverable	44.8	J	I		266	µg/L	WA	EPA6010B	
0	Boron, total recoverable	37.4	J	I		266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B	
0	Cadmium, dissolved	0.501	J	I		5.00	µg/L	GE	EPA6010B	
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<0.451	JU		4	5.00	µg/L	GE	EPA6010B	
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B	
0	Calcium, dissolved	3,110				100	µg/L	GE	EPA6010B	
0	Calcium, total recoverable	3,050				100	µg/L	GE	EPA6010B	
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Chloride	3,950				100	µg/L	GE	EPA9056	
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B	
2	Chloroethene (Vinyl chloride)	34.2			X	10.0	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B	
0	Chromium, dissolved	2.44	J	I		5.00	µg/L	GE	EPA6010B	
0	Chromium, dissolved	2.20	J	I		7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	3.65	J	I		5.00	µg/L	GE	EPA6010B	
0	Chromium, total recoverable	5.90	J	I		7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	5.50	J	I		7.00	µg/L	WA	EPA6010B	
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B	
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B	
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014	
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
2	1,1-Dichloroethane	22.0			X	5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	1.32	J	I		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B	
0	Hydroxide alkalinity	<2,000				2,000	µg/L	GE	SM2320B	
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B	
2	Iron, dissolved	5,520				50.0	µg/L	GE	SM2320B	
2	Iron, dissolved	5,040				74.0	µg/L	WA	EPA6010B	
2	Iron, total recoverable	4,830				50.0	µg/L	GE	EPA6010B	
2	Iron, total recoverable	6,110	J	L	I	74.0	µg/L	WA	EPA6010B	
2	Iron, total recoverable	5,990	J	L	I	74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B	
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B	
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	1.50	J	I		2.70	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	1.20	J	I		2.70	µg/L	WA	EPA6010B	
0	Magnesium, dissolved	1,080				20.0	µg/L	GE	EPA6010B	
0	Magnesium, total recoverable	1,080				20.0	µg/L	GE	EPA6010B	
2	Manganese, dissolved	94.4				10.0	µg/L	GE	EPA6010B	
2	Manganese, total recoverable	93.7				10.0	µg/L	GE	EPA6010B	
0	Mercury, dissolved	0.125	J	I		0.200	µg/L	GE	EPA7470A	
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	0.195	J	I		0.200	µg/L	GE	EPA7470A	
0	Mercury, total recoverable	0.130	J	I		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	0.120	J	I		0.700	µg/L	WA	EPA7470A	
0	Nickel, total recoverable	4.20	J	I		26.0	µg/L	WA	EPA6010B	
0	Nickel, total recoverable	3.20	J	I		26.0	µg/L	WA	EPA6010B	

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Well BGO 28D collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nitrate-nitrite as nitrogen	1,230				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,240				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,290				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	0.520	J	I		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.970	U	V		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.540	U	V		5.00	µg/L	WA	EPA6010B
0	Sodium, dissolved	12,600				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	12,800				100	µg/L	GE	EPA6010B
0	Sulfate	7,660				200	µg/L	GE	EPA9056
0	Sulfate	8,820				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.22	J	I	X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	55,000	J	KQ	C	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	498	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	229				120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	114			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, dissolved	7.15				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	9.34				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	7.40	J	I		53.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	6.70	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	4.39E-08±2.86E-08	U			4.69E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.81E-08±2.76E-08	U			4.67E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.43E-09±2.86E-09	U			1.45E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.65E-08±4.04E-09	J	I		1.19E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	7.58E-10±5.04E-10	J	I		7.31E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.39E-09±6.79E-10	J	I		7.92E-10	µCi/mL	GP	RADA-008
0	Radium-228	-1.86E-09±1.85E-10	U			9.54E-10	µCi/mL	GP	RADA-009
0	Radium-228	6.57E-10±6.54E-10	U			1.36E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.15E-08±8.12E-10				7.15E-10	µCi/mL	GP	RADA-004
2	Tritium	3.63E-02±4.12E-05				6.15E-07	µCi/mL	ML	RADA-002

**WELL BGO 29C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 45.53 ft (13.88 m) below TOC  
 Water elevation: 219.27 ft (66.83 m) msl  
 pH: 4.9  
 Sp. conductance: 27 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 71 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
1	Aluminum, total recoverable	30.9	J	I		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	<7.70	U	V		1.80	µg/L	WA	EPA6010B
0	Barium, dissolved	<8.00	U	V		1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	<8.40	U	V		1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Chromium, dissolved	<0.760	U	V		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<1.10	U	V		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	<74.0	U			74.0	µg/L	WA	EPA6010B

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Well BGO 29C collected on 05/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Iron, dissolved	<74.0	U			74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	43.1	J	I		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 29D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 42.75 ft (13.03 m) below TOC  
 Water elevation: 222.75 ft (67.9 m) msl  
 pH: 5.1  
 Sp. conductance: 54 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 2 gal  
 The well went dry during purging.

Time: 15:18  
 Water temperature: 20.2°C  
 Air temperature: 31.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	81.0	J	I		146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	220				146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	18.0				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	20.7				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<0.770	U	V		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<4.30	U	V		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	74.6				74.0	µg/L	WA	EPA6010B
2	Iron, total recoverable	328				74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 30C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5.5  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 10:15  
 Water temperature: 19.9°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	8.20				2,000	mg/L	GE	SM2320B
0	Aluminum, dissolved	<50.0	U			50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	4,190				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	5.03				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	72.7				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<0.272	JU			5.00	µg/L	GE	EPA6010B

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Well BGO 30C collected on 04/03/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Calcium, dissolved	1,590				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,940				100	µg/L	GE	EPA6010B
0	Chloride	2,450				100	µg/L	GE	EPA9056
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	9.18				5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B
0	Iron, dissolved	36.5	J	I		50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	7,150				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	14.4				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	301				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	590				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	14.7				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	101				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	640				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	4,620				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	4,410				100	µg/L	GE	EPA6010B
0	Sulfate	1,010				200	µg/L	GE	EPA9056
0	Zinc, dissolved	46.0				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	27.9				5.00	µg/L	GE	EPA6010B

## WELL BGO 30C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 58.16 ft (17.73 m) below TOC  
 Water elevation: 216.34 ft (65.94 m) msl  
 pH: 5.7  
 Sp. conductance: 32 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 70 gal

Time: 15:44  
 Water temperature: 24.1°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	9.05				1,000	mg/L	GE	SM2320B
0	Alkalinity (as CaCO <sub>3</sub> )	6.50	J	I		6,700	mg/L	WA	EPA310.1
0	Aluminum, dissolved	<50.0	U			µg/L	µg/L	GE	EPA6010B
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Aluminum, total recoverable	<25.7	U	V		146	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<5.00	U			40.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<40.0	U			5.00	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			40.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<40.0	U			5.00	µg/L	WA	EPA6010B
0	Barium, dissolved	4.18	J	I		1.80	µg/L	GE	EPA6010B
0	Barium, dissolved	4.40	U			1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	4.37	J	I		5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	4.10	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, dissolved	0.355	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Calcium, dissolved	2,410				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	2,240				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloride	2,100				100	µg/L	GE	EPA9056
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	1.06	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, dissolved	1.97	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, dissolved	2.10	J	I		7.00	µg/L	WA	EPA6010B

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Well BGO 30C collected on 05/31/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	1.23	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.00	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	14.8	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	2.32	J	I	X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Hydroxide alkalinity	<1,000	U			1,000	µg/L	GE	SM2320B
0	Iron, dissolved	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Iron, dissolved	<74.0	U	V		74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	25.8	J	I		50.0	µg/L	GE	EPA6010B
0	Iron, total recoverable	<20.7	U	V		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	2.40	J	I		2.70	µg/L	WA	EPA6010B
0	Magnesium, dissolved	284				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	285				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	14.9				10.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	14.1				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	640				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	667				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	0.330	J	I		5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<1.30	JU		4	5.00	µg/L	WA	EPA6010B
0	Sodium, dissolved	3,410				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	3,240				100	µg/L	GE	EPA6010B
0	Sulfate	886				200	µg/L	GE	EPA9056
0	Sulfate	757				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	40,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	127	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	21.2	J	I	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	22.0				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, dissolved	14.7				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	12.7				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	25.7	J	I		53.0	µg/L	WA	EPA6010B
0	Gross alpha	1.50E-09±1.52E-09	U			6.84E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.05E-10±1.21E-09	U			6.25E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.69E-10±1.35E-10	J	I		7.60E-11	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	6.10E-11±8.00E-11	J	I		7.90E-11	µCi/mL	GP	RADA-010
0	Radium-226	9.61E-10±4.35E-10	U			5.03E-10	µCi/mL	GP	RADA-008
0	Radium-228	-3.40E-10±5.14E-10	U			1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-5.10E-11±4.39E-10	U			1.03E-09	µCi/mL	GP	RADA-004
2	Tritium	1.39E-03±8.17E-06				6.04E-07	µCi/mL	ML	RADA-002

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## WELL BGO 30D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5.6  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 12:00  
 Water temperature: 20.3°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	33.8				2,000	mg/L	GE	SM2320B
0	Aluminum, dissolved	<50.0	U			50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	2,890				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.69				5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	40.9				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	55.8				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	11,300				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	11,000				100	µg/L	GE	EPA6010B
0	Chloride	10,300				100	µg/L	GE	EPA9056
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	13.1				5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B
0	Iron, dissolved	82.6				50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	7,020				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	14.8				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	800				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	902				20.0	µg/L	GE	EPA6010B
2	Manganese, dissolved	89.5				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	109				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,980				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	8,090				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	8,210				100	µg/L	GE	EPA6010B
0	Sulfate	2,720				200	µg/L	GE	EPA9056
0	Zinc, dissolved	178				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	221				5.00	µg/L	GE	EPA6010B

## WELL BGO 30D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 52.35 ft (15.96 m) below TOC  
 Water elevation: 222.45 ft (67.8 m) msl  
 pH: 5.5  
 Sp. conductance: 115 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 15:01  
 Water temperature: 24°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	25.2			X	1,000	mg/L	GE	SM2320B
0	Alkalinity (as CaCO <sub>3</sub> )	17.0				6,700	mg/L	WA	EPA310.1
0	Aluminum, dissolved	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Aluminum, dissolved	<55.5	U			146	µg/L	WA	EPA6010B
1	Aluminum, total recoverable	45.7	J	I		50.0	µg/L	GE	EPA6010B
0	Aluminum, total recoverable	<81.6	U	V		146	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, dissolved	6.60	J	I		40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	4.80	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	15.6				5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	15.2				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	16.1				5.00	µg/L	GE	EPA6010B

ESH-EMS-20010585

Well BGO 30D collected on 05/31/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Barium, total recoverable	16.6				1.80	µg/L	WA	EPA6010B
0	Benzene	1.70	J	I		5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Calcium, dissolved	4,780				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	4,460				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloride	12,200				100	µg/L	GE	EPA9056
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	11.7				10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	1.39	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, dissolved	1.20	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	0.983	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	24.7				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	3.18	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Hydroxide alkalinity	<1,000	U		X	1,000	µg/L	GE	SM2320B
2	Iron, dissolved	3,310				50.0	µg/L	GE	EPA6010B
2	Iron, dissolved	2,980				74.0	µg/L	WA	EPA6010B
2	Iron, total recoverable	3,310				50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	3,060				74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.530	J	I		2.70	µg/L	WA	EPA6010B
0	Magnesium, dissolved	815				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	794	J	K	I	20.0	µg/L	GE	EPA6010B
2	Manganese, dissolved	115				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	113				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,390				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,450				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sodium, dissolved	13,300				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	13,300				100	µg/L	GE	EPA6010B
0	Sulfate	5,410				200	µg/L	GE	EPA9056
0	Sulfate	6,000				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.46	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	76,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,400				1,000	µg/L	WA	EPA9060
2	Total organic halogens	272			X	120	µg/L	WA	EPA9020B

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Second Quarter 2001



Well BGO 30D collected on 05/31/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,1-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
2	Trichloroethylene	8.66			5.00		µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Xylenes	7.59			5.00		µg/L	WA	EPA8260B
0	Zinc, dissolved	134			5.00		µg/L	GE	EPA6010B
0	Zinc, total recoverable	138			5.00		µg/L	GE	EPA6010B
0	Zinc, total recoverable	157			53.0		µg/L	WA	EPA6010B
0	Carbon-14	2.46E-08±1.41E-08	J	I	2.30E-08		µCi/mL	GP	RADA-003
0	Gross alpha	2.89E-09±2.15E-09	U		8.42E-09		µCi/mL	ML	RADA-001
0	Nonvolatile beta	3.92E-09±1.93E-09	U		6.94E-09		µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	2.66E-09±5.19E-10			2.09E-10		µCi/mL	GP	RADA-010
1	Radium-226	2.59E-09±6.28E-10			3.49E-10		µCi/mL	GP	RADA-008
1	Radium-226	2.70E-09±6.35E-10			3.88E-10		µCi/mL	GP	RADA-008
0	Radium-228	1.76E-09±5.89E-10	U	V	1.06E-09		µCi/mL	GP	RADA-009
0	Strontium-90	6.00E-10±3.15E-10	J	I	5.96E-10		µCi/mL	GP	RADA-004
2	Tritium	1.05E-02±2.15E-05			6.09E-07		µCi/mL	ML	RADA-002

**WELL BGO 31C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 50.96 ft (15.53 m) below TOC  
 Water elevation: 222.14 ft (67.71 m) msl  
 pH: 5.6  
 Sp. conductance: 29 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 10:28  
 Water temperature: 23.6°C  
 Air temperature: 28.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	3.50	J	I	7.700		mg/L	WA	EPA310.1
1	Aluminum, dissolved	47.0	J	I	322		µg/L	WA	EPA6010B
2	Aluminum, total recoverable	165	J	I	322		µg/L	WA	EPA6010B
0	Antimony, total recoverable	<20.0	U		20.0		µg/L	WA	EPA6010B
0	Arsenic, dissolved	<42.0	U		42.0		µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U		42.0		µg/L	WA	EPA6010B
0	Barium, dissolved	31.8			8.30		µg/L	WA	EPA6010B
0	Barium, total recoverable	7.90	J	I	8.30		µg/L	WA	EPA6010B
0	Benzene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Boron, total recoverable	<9.40	U	V	20.0		µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Bromoform	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U	X	10.0		µg/L	WA	EPA8260B
0	Cadmium, dissolved	<4.10	U		4.10		µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U		4.10		µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U	X	10.0		µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U	X	10.0		µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U	X	10.0		µg/L	WA	EPA8260B
0	Chloroform	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U	X	10.0		µg/L	WA	EPA8260B
0	Chromium, dissolved	1.30	J	I	11.0		µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.70	J	I	11.0		µg/L	WA	EPA6010B
0	Copper, total recoverable	4.60	J	I	5.50		µg/L	WA	EPA6010B
0	Cyanide	<33.0	U		33.0		µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Dichloromethane	2.48	J	I	5.00		µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Iron, dissolved	<192	U		192		µg/L	WA	EPA6010B
1	Iron, total recoverable	179	J	I	192		µg/L	WA	EPA6010B
0	Lead, dissolved	3.50	J	I	24.0		µg/L	WA	EPA6010B
0	Lead, total recoverable	3.60	J	I	24.0		µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.590	J	I	1.60		µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.300	U		0.300		µg/L	WA	EPA7470A
0	Mercury, total recoverable	0.0400	J	I	0.300		µg/L	WA	EPA7470A

ESH-EMS-20010585

Well BGO 31C collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nickel, total recoverable	<0.500	JU		4	4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.200		X	57.0		µg/L	WA	EPA353.2
0	Phenols	<34.0	U		34.0		µg/L	WA	EPA9066
0	Selenium, dissolved	<31.0	U		31.0		µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U		31.0		µg/L	WA	EPA6010B
0	Silver, dissolved	<6.80	U		6.80		µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U		6.80		µg/L	WA	EPA6010B
0	Sulfate	435			320		µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
2	Tetrachloroethylene	9.30		X	5.00		µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U		63.0		µg/L	WA	EPA6010B
0	Toluene	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Total dissolved solids	36,000	J	Q	30,000		µg/L	WA	EPA160.1
0	Total organic carbon	2,390		X	1,400		µg/L	WA	EPA9060
0	Total organic halogens	19.6	J	I	X	57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	2.08	J	I	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U	X8	5.00		µg/L	WA	EPA8260B
0	Xylenes	<5.00	U	X	5.00		µg/L	WA	EPA8260B
0	Zinc, total recoverable	9.40	J	I	58.0		µg/L	WA	EPA6010B
0	Carbon-14	3.14E-10±1.45E-08	U		2.50E-08		µCi/mL	GP	RADA-003
0	Gross alpha	5.77E-09±3.54E-09	JU	L	C	1.31E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	6.94E-09±3.33E-09	U		1.18E-08		µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.06E-09±4.06E-10	J	I	3.14E-10		µCi/mL	GP	RADA-010
1	Radium-226	4.39E-09±8.97E-10			4.26E-10		µCi/mL	GP	RADA-008
0	Radium-228	-8.12E-10±4.38E-10	U		7.99E-10		µCi/mL	GP	RADA-009
1	Strontium-90	7.59E-09±7.66E-10	K	I	7.81E-10		µCi/mL	GP	RADA-004
2	Tritium	3.39E-03±1.25E-05	J		6.11E-07		µCi/mL	ML	RADA-002

**WELL BGO 31D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 50.52 ft (15.4 m) below TOC  
 Water elevation: 223.18 ft (68.03 m) msl  
 pH: 4.3  
 Sp. conductance: 34 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 14:02  
 Water temperature: 24.4°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Tritium	1.83E-05±9.68E-07			6.15E-07		µCi/mL	ML	RADA-002

**WELL BGO 31D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 50.52 ft (15.4 m) below TOC  
 Water elevation: 223.18 ft (68.03 m) msl  
 pH: 4.3  
 Sp. conductance: 34 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 14:02  
 Water temperature: 24.4°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U		6,700		mg/L	WA	EPA310.1
0	Aluminum, dissolved	<41.6	U	V	146		µg/L	WA	EPA6010B
2	Aluminum, total recoverable	626			146		µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U		27.0		µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U		40.0		µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		40.0		µg/L	WA	EPA6010B
0	Barium, dissolved	4.40			1.80		µg/L	WA	EPA6010B
0	Barium, total recoverable	5.70			1.80		µg/L	WA	EPA6010B
0	Benzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		266		µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		5.00		µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 31D collected on 06/02/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, dissolved	1.10	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	5.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	8.30	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Iron, dissolved	<92.1	U	V		74.0	µg/L	WA	EPA6010B
2	Iron, total recoverable	2,130	U			74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	9.60	J	I		47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, dissolved	0.0800	J	I		0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,590	U			40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	1.20	J	I		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.760	JU		4	5.00	µg/L	WA	EPA6010B
0	Sulfate	323	J	I		340	µg/L	WA	EPA9056
0	Sulfate	271	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	42,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	228	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	7.20	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.09E-09±1.42E-08	U			2.47E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.50E-09±1.53E-09	U			6.88E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.32E-09±1.57E-09	U			6.26E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	8.53E-10±3.22E-10	U			8.60E-11	µCi/mL	GP	RADA-010
0	Radium-226	1.30E-09±4.89E-10	J	I		3.30E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.49E-10±5.00E-10	U			9.93E-10	µCi/mL	GP	RADA-009
0	Radium-228	1.33E-09±5.62E-10	J	I		1.05E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.02E-09±9.85E-11	J			7.33E-10	µCi/mL	GP	RADA-004
1	Tritium	1.83E-05±9.69E-07	U			6.17E-07	µCi/mL	ML	RADA-002
1	Tritium	1.83E-05±9.68E-07	U			6.15E-07	µCi/mL	ML	RADA-002

## WELL BGO 32D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 57.65 ft (17.57 m) below TOC  
 Water elevation: 224.05 ft (68.29 m) msl  
 pH: 4.4  
 Sp. conductance: 105 µS/cm  
 Turbidity: 12 NTU  
 Water evacuated from the well prior to sampling: 13 gal  
 The well went dry during purging.

Time: 13:55  
 Water temperature: 32°C  
 Air temperature: 32.8°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<7.70	U			7,700	mg/L	WA	EPA310.1
2	Aluminum, dissolved	635				322	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	751				322	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	744				322	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, dissolved	514				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	530				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	517				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	15.8	J	I		20.0	µg/L	WA	EPA6010B
0	Boron, total recoverable	14.4	J	I		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, dissolved	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	2.64	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroform	2.75	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, dissolved	2.30	J	I		11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	5.70	J	I		11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	5.60	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	124				5.50	µg/L	WA	EPA6010B
0	Copper, total recoverable	121				5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<14.5	U	V	8	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<8.59	U	V	8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B



Well BGO 32D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Iron, dissolved	61.4	J	I		192	µg/L	WA	EPA6010B
2	Iron, total recoverable	507				192	µg/L	WA	EPA6010B
2	Iron, total recoverable	528				192	µg/L	WA	EPA6010B
1	Lead, dissolved	29.5				24.0	µg/L	WA	EPA6010B
1	Lead, total recoverable	27.3				24.0	µg/L	WA	EPA6010B
1	Lead, total recoverable	27.1				24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.900	J	I		1.60	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.790	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, dissolved	0.0600	J	I		0.300	µg/L	WA	EPA7470A
0	Mercury, total recoverable	0.0600	J	I		0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.90	J	I		4.10	µg/L	WA	EPA6010B
0	Nickel, total recoverable	2.60	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	4,170			X	570	µg/L	WA	EPA6010B
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	353				340	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.95	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.94	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			8	µg/L	WA	EPA8260B
0	Total dissolved solids	96,000	J	Q		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	219	J		X	1,400	µg/L	WA	EPA9060
1	Total organic halogens	65.8	J	I		74.3	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.52	J	I		5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.40	J	I		5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	16.7	J	I		58.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	16.4	J	I		58.0	µg/L	WA	EPA6010B
2	Gross alpha	2.53E-08±7.54E-09	J	IL	C	1.77E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	5.10E-09±3.82E-09	U			1.39E-08	µCi/mL	ML	RADA-001
2	Tritium	2.23E-03±9.98E-06	J	K	I	5.93E-07	µCi/mL	ML	RADA-002

## WELL BGO 32D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 57.65 ft (17.57 m) below TOC  
 Water elevation: 224.05 ft (68.29 m) msl  
 pH: 4.4  
 Sp. conductance: 105 µS/cm  
 Turbidity: 12 NTU  
 Water evacuated from the well prior to sampling: 13 gal  
 The well went dry during purging.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	6.80E-08±1.67E-08				2.52E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.17E-07±1.68E-08				2.24E-08	µCi/mL	GP	RADA-003
2	Radium, total alpha-emitting	1.96E-08±1.67E-09				2.98E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.00E-09±4.28E-10	J	I		4.17E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.30E-08±1.17E-09				1.17E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.63E-10±3.75E-10	U			7.88E-10	µCi/mL	GP	RADA-004

## WELL BGO 33C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	10.5				7,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO3)	10.5				7,700	mg/L	WA	EPA310.1
1	Aluminum, dissolved	46.1	J	I		322	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	50.4	J	I		322	µg/L	WA	EPA6010B
1	Aluminum, total recoverable	48.9	J	I		322	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, dissolved	11.8				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	12.9				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	12.1				8.30	µg/L	WA	EPA6010B
0	Benzene	2.22	J	I	X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<14.7	U			20.0	µg/L	WA	EPA6010B
0	Boron, total recoverable	<10.3	U	V		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, dissolved	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	12.1	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, dissolved	1.90	J	I		11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.60	J	I		11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.30	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<3.94	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Iron, dissolved	<192	U			192	µg/L	WA	EPA6010B
0	Iron, total recoverable	<192	U			192	µg/L	WA	EPA6010B
0	Iron, total recoverable	<192	U			192	µg/L	WA	EPA6010B
0	Lead, dissolved	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.90				1.60	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.60				1.60	µg/L	WA	EPA6010B
2	Mercury, dissolved	3.35				0.300	µg/L	WA	EPA7470A
2	Mercury, total recoverable	4.92				0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.10	J	I		4.10	µg/L	WA	EPA6010B
0	Nickel, total recoverable	<1.70	JU		4	4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,040			X	57.0	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, dissolved	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B



Well BGO 33C collected on 06/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	394				320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	7.16			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	33,000	J	Q		30,000	µg/L	WA	EPA160.1
0	Total dissolved solids	<30,000	JU	Q		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,730			X	1,400	µg/L	WA	EPA9060
2	Total organic halogens	183	J	Q	X	57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	37.6			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	7.40	J	I		58.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	6.90	J	I		58.0	µg/L	WA	EPA6010B
0	Carbon-14	5.21E-09±1.45E-08	U			2.48E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.55E-09±1.78E-09	JU	L	C	1.52E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.73E-09±2.68E-09	U			1.28E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	8.88E-10±3.74E-10	J	I		3.04E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.15E-09±4.25E-10				2.82E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.19E-09±6.29E-10	U			1.20E-09	µCi/mL	GP	RADA-009
2	Strontium-90	8.18E-09±8.13E-10				8.24E-10	µCi/mL	GP	RADA-004
2	Tritium	1.32E-02±2.44E-05	J	K	I	5.97E-07	µCi/mL	ML	RADA-002

**WELL BGO 33C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	1.09E-08±1.48E-08	U			2.49E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.09E-09±4.21E-10	J	I		4.20E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.10E-09±6.17E-10				4.07E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.84E-09±6.17E-10	J	IK	C	1.07E-09	µCi/mL	GP	RADA-009
2	Strontium-90	9.53E-09±8.16E-10				6.56E-10	µCi/mL	GP	RADA-004

**WELL BGO 33D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/02/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.7  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 11:26  
 Water temperature: 21.4°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	4.10				2,000	mg/L	GE	SM2320B
0	Alkalinity (as CaCO <sub>3</sub> )	3.08				2,000	mg/L	GE	EPA310.1
2	Aluminum, dissolved	52.7				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	6,010				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	14.9				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	27.0				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	1,280				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,240				100	µg/L	GE	EPA6010B
0	Chloride	5,650				100	µg/L	GE	EPA9056
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B

ESH-EMS-20010585

Well BGO 33D collected on 04/02/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	13.1				5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B
0	Hydroxide alkalinity	<2,000	U			2,000	µg/L	GE	SM2320B
0	Iron, dissolved	91.4				50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	9,970				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	4.08	J	I		5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	11.3				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,070				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,240				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	5.20	J	I		10.0	µg/L	GE	EPA6010B
1	Manganese, total recoverable	33.5				10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2,030				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	3,100				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	3,210				100	µg/L	GE	EPA6010B
0	Sulfate	382				200	µg/L	GE	EPA9056
0	Zinc, dissolved	31.2				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	18.8				5.00	µg/L	GE	EPA6010B

**WELL BGO 33D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.6  
 Sp. conductance: Not available  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 73 gal

Time: 11:55  
 Water temperature: 20.9°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	3.02			X	1,000	mg/L	GE	SM2320B
0	Aluminum, dissolved	<50.0	U			50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	98.1				50.0	µg/L	GE	EPA6010B
0	Arsenic, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, dissolved	9.21				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	9.87				5.00	µg/L	GE	EPA6010B
0	Cadmium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	1,130				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,100				100	µg/L	GE	EPA6010B
0	Chloride	4,480				100	µg/L	GE	EPA9056
0	Chromium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.18	J	I		5.00	µg/L	GE	EPA6010B
0	Hydroxide alkalinity	<1,000	U		X	1,000	µg/L	GE	SM2320B
0	Iron, dissolved	33.6	J	I		50.0	µg/L	GE	EPA6010B
1	Iron, total recoverable	160				50.0	µg/L	GE	EPA6010B
0	Lead, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	704				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	705				20.0	µg/L	GE	EPA6010B
0	Manganese, dissolved	3.66	J	I		10.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Mercury, dissolved	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,510				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,490				50.0	µg/L	GE	EPA353.1
0	Selenium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, dissolved	0.317	J	I		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	3,240				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	3,190				100	µg/L	GE	EPA6010B
0	Sulfate	435				200	µg/L	GE	EPA9056
0	Zinc, dissolved	5.06				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<4.85	JU		4	5.00	µg/L	GE	EPA6010B

B-40

Second Quarter 2001



## WELL BGO 33D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 53.68 ft (16.36 m) below TOC  
 Water elevation: 226.62 ft (69.07 m) msl  
 pH: 4.9  
 Sp. conductance: 37 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 9:42  
 Water temperature: 21.4°C  
 Air temperature: 25.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U		6.700	mg/L	WA	EPA310.1	
0	Aluminum, dissolved	<91.0	U	V	146	µg/L	WA	EPA6010B	
0	Aluminum, total recoverable	<146	U		146	µg/L	WA	EPA6010B	
0	Aluminum, total recoverable	<146	U		146	µg/L	WA	EPA6010B	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	11.5			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	11.5			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	11.2			1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Boron, total recoverable	<266	U		266	µg/L	WA	EPA6010B	
0	Boron, total recoverable	<266	U		266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	2-Chloroethyl vinyl ether	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	2-Chloroethyl vinyl ether	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chromium, dissolved	0.710	J	I	7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	1.80	J	I	7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	2.00	J	I	7.00	µg/L	WA	EPA6010B	
0	Copper, total recoverable	<15.0	U		15.0	µg/L	WA	EPA6010B	
0	Copper, total recoverable	1.70	J	I	15.0	µg/L	WA	EPA6010B	
0	Cyanide	<15.2	U		15.2	µg/L	WA	EPA9014	
0	Dibromochloromethane	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Dibromochloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,2-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,2-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	

ESH-EMS-20010585

Well BGO 33D collected on 06/02/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Iron, dissolved	<23.0	U	V	74.0	µg/L	WA	EPA6010B	
0	Iron, total recoverable	<16.5	U	V	74.0	µg/L	WA	EPA6010B	
0	Iron, total recoverable	<21.1	U	V	74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	<2.70	U		2.70	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	<2.70	U		2.70	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Nickel, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Nickel, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Nitrate-nitrite as nitrogen	1,520			40.0	µg/L	WA	EPA353.2	
0	Phenols	<37.0	U		37.0	µg/L	WA	EPA9066	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<0.650	JU	4	5.00	µg/L	WA	EPA6010B	
0	Sulfate	269	J	I	340	µg/L	WA	EPA9056	
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tetrachloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tetrachloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tin, total recoverable	<70.0	U		70.0	µg/L	WA	EPA6010B	
0	Tin, total recoverable	<70.0	U		70.0	µg/L	WA	EPA6010B	
0	Toluene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Toluene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Total dissolved solids	40,000	J	I	50,000	µg/L	WA	EPA160.1	
0	Total organic carbon	338	J	I	1,000	µg/L	WA	EPA9060	
0	Total organic halogens	<120	U	X	120	µg/L	WA	EPA9020B	
0	1,1,1-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,1-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichlorofluoromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichlorofluoromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Xylenes	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Xylenes	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Zinc, total recoverable	<53.0	U		53.0	µg/L	WA	EPA6010B	
0	Zinc, total recoverable	<53.0	U		53.0	µg/L	WA	EPA6010B	
0	Carbon-14	-9.52E-09±1.39E-08	U		2.47E-08	µCi/mL	GP	RADA-003	
0	Gross alpha	1.60E-09±1.65E-09	U		7.40E-09	µCi/mL	ML	RADA-001	
0	Nonvolatile beta	5.18E-09±1.98E-09	U		6.51E-09	µCi/mL	ML	RADA-001	
0	Radium, total alpha-emitting	2.22E-09±5.00E-10	U		7.90E-11	µCi/mL	GP	RADA-010	
1	Radium-226	2.92E-09±6.77E-10	U		4.09E-10	µCi/mL	GP	RADA-008	
0	Radium-228	8.50E-10±4.91E-10	U		9.47E-10	µCi/mL	GP	RADA-009	
1	Strontium-90	-2.79E-10±3.24E-10	U		8.70E-10	µCi/mL	GP	RADA-004	
1	Tritium	1.23E-05±8.01E-07	U		5.92E-07	µCi/mL	ML	RADA-002	

## WELL BGO 34D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 45.76 ft (13.95 m) below TOC  
 Water elevation: 229.14 ft (69.84 m) msl  
 pH: 5  
 Sp. conductance: 46 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 9:38  
 Water temperature: 22.3°C  
 Air temperature: 25.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.25	J	I	6,700	mg/L	WA	EPA310.1	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	26.3			1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Boron, total recoverable	27.4	J	I	266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U	X	10.0	µg/L	WA	EPA8260B	

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Well BGO 34D collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	11.1	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.10	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.00	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,470				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	233	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<50,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	181	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	13.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-7.37E-09±2.79E-08	U			4.87E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.49E-09±2.84E-09	U			1.45E-08	µCi/mL	ML	RADA-001B
0	Gross alpha	8.23E-09±4.13E-09	U			1.43E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.68E-09±2.60E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.25E-10±2.43E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.13E-09±3.53E-10	U			2.27E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.08E-09±4.57E-10	U			2.64E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.07E-09±5.59E-10	J	I		1.07E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.32E-10±4.53E-10	U			9.99E-10	µCi/mL	GP	RADA-004
2	Tritium	2.59E-05±1.06E-06				5.14E-07	µCi/mL	ML	RADA-002

## WELL BGO 35C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 46.29 ft (14.11 m) below TOC  
 Water elevation: 227.11 ft (69.22 m) msl  
 pH: 6.3  
 Sp. conductance: 49 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 107 gal

Time: 15:39  
 Water temperature: 21.8°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	25.5				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	24.9				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B

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Well BGO 35C collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	1.12	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.920	JU			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.00	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,420				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.570	U	V		5.00	µg/L	WA	EPA6010B
0	Sulfate	570				340	µg/L	WA	EPA9056
0	Sulfate	563				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	70,000	J	KQ	C	50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	62,000	J	KQ	C	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<171	U			171	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	19.4	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	13.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.09E-08±2.62E-08	U			4.62E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.99E-09±3.28E-09	U			1.38E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	6.97E-09±3.16E-09	U			1.16E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.09E-10±3.85E-10	U			7.66E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.74E-09±9.27E-10				5.93E-10	µCi/mL	GP	RADA-008
1	Radium-226	3.16E-09±8.60E-10				7.20E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.21E-10±4.91E-10	U			9.60E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.77E-11±3.42E-10	U			7.87E-10	µCi/mL	GP	RADA-004
2	Tritium	2.29E-04±3.20E-06				5.79E-07	µCi/mL	ML	RADA-002

## WELL BGO 35D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 42.39 ft (12.92 m) below TOC  
 Water elevation: 231.11 ft (70.44 m) msl  
 pH: 5.1  
 Sp. conductance: 41 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 6 gal  
 The well went dry during purging.

Time: 13:54  
 Water temperature: 29.5°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	10.5				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B

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Well BGO 35D collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.70	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	54.3	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	6.50	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.380	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,060	U			100	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	383	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<48,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	461	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	30.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.08E-08±2.73E-08	U			4.80E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-4.01E-09±8.34E-10	U			1.48E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.14E-09±1.64E-09	U			1.20E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	7.10E-10±2.90E-10	J	I		2.85E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.44E-09±4.10E-10	U			2.15E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.25E-09±6.20E-10	J	I		1.17E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-5.19E-11±3.54E-10	U			8.60E-10	µCi/mL	GP	RADA-004
2	Tritium	4.20E-05±1.34E-06	U			5.22E-07	µCi/mL	ML	RADA-002

## WELL BGO 36D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 40.02 ft (12.2 m) below TOC  
 Water elevation: 235.38 ft (71.74 m) msl  
 pH: 4.9  
 Sp. conductance: 23 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 6 gal  
 The well went dry during purging.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	15.3	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 36D collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.50	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	84.5	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	14.1	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.640	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	557	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	286	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<45,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	19.2	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-4.18E-09±2.76E-08	U			4.81E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.54E-09±1.56E-09	U			1.42E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	2.36E-10±2.33E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	5.40E-10±2.45E-10	J	I		2.20E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.67E-09±4.46E-10	U			2.20E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.74E-09±5.55E-10	J	I		9.17E-10	µCi/mL	GP	RADA-009
0	Strontium-90	7.56E-12±3.30E-10	U			7.90E-10	µCi/mL	GP	RADA-004
1	Tritium	1.57E-05±8.57E-07	U			5.30E-07	µCi/mL	ML	RADA-002

## WELL BGO 37C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 55.63 ft (16.96 m) below TOC  
 Water elevation: 230.67 ft (70.31 m) msl  
 pH: 4.9  
 Sp. conductance: 43 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 116 gal

Time: 17:29  
 Water temperature: 21.3°C  
 Air temperature: 38°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	10.0	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BGO 37C collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromoform	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
1	Carbon tetrachloride	2.57	J	IL	OX	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	2.46	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	20.1	J	L	OX	5.00	µg/L	WA	EPA8260B
0	Chloroform	19.7	J	L	O	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.920	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	9.50	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	12.4	J	L	OX	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	12.1	J	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethylene	6.38	J	L	OX	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethylene	6.27	J	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.800	J	I		2.70	µg/L	WA	EPA6010B
1	Mercury, total recoverable	1.16				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,780				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	401				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	6.97	J	L	OX	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	6.87	J	L	O	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	75,000				50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	62,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	386	J	I		1,000	µg/L	WA	EPA9060
0	Total organic carbon	440	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	224			X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	174	J	L	OX	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	169	J	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.31E-08±1.41E-08	J	I		2.30E-08	µCi/mL	GP	RADA-003
0	Gross alpha	7.65E-10±1.50E-09	U			8.17E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.21E-09±1.03E-09	U			6.84E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	6.29E-10±4.52E-10	U			7.05E-10	µCi/mL	GP	RADA-010

ESH-EMS-20010585

Well BGO 37C collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	1.25E-09±4.25E-10				2.62E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.04E-09±6.36E-10	U			1.25E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.03E-10±4.84E-10	R	L	I	1.09E-09	µCi/mL	GP	RADA-004
2	Tritium	2.03E-02±3.05E-05				6.40E-07	µCi/mL	ML	RADA-002

## WELL BGO 37C Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 55.63 ft (16.96 m) below TOC  
 Water elevation: 230.67 ft (70.31 m) msl  
 pH: 4.9  
 Sp. conductance: 43 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 116 gal

Time: 17:29  
 Water temperature: 21.3°C  
 Air temperature: 38°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	1.93E-08±1.39E-08	U			2.29E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.30E-09±5.77E-10	J	I		5.12E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.43E-10±3.23E-10	U			4.44E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.02E-09±6.50E-10	U			1.26E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.50E-10±3.40E-10	R	L	I	8.30E-10	µCi/mL	GP	RADA-004

## WELL BGO 37D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 48.99 ft (14.93 m) below TOC  
 Water elevation: 238.31 ft (72.64 m) msl  
 pH: 4.2  
 Sp. conductance: 22 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 7 gal  
 The well went dry during purging.

Time: 10:09  
 Water temperature: 26.9°C  
 Air temperature: 20.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<1.00	U	V		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.10				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	24.9				15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	12.6	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	2.70	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,480				40.0	µg/L	WA	EPA353.2

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Second Quarter 2001



Well BGO 37D collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	247	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<42,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,010	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	55.9	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-9.36E-09±2.76E-08	U			4.84E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.95E-09±5.52E-10	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	2.56E-09±3.04E-09	U			1.42E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	9.50E-11±1.52E-10	U			3.40E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.02E-10±4.53E-10	J	I		5.16E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.14E-10±5.04E-10	U			1.04E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.49E-10±5.22E-10	U			1.18E-09	µCi/mL	GP	RADA-004
1	Tritium	1.84E-05±8.80E-07	U			4.95E-07	µCi/mL	ML	RADA-002

## WELL BGO 38D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 53.71 ft (16.37 m) below TOC  
 Water elevation: 237.89 ft (72.51 m) msl  
 pH: 4.4  
 Sp. conductance: 38 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 7 gal  
 The well went dry during purging.

Time: 12:15  
 Water temperature: 27.5°C  
 Air temperature: 28.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	19.4	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	6.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	8.70	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.470	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	4.70	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,330	U			100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066

ESH-EMS-20010585

Well BGO 38D collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	233	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<29,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	119	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	273	J	I		1,000	µg/L	WA	EPA9060
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.38E-08±2.68E-08	U			4.80E-08	µCi/mL	GP	RADA-003
0	Gross alpha	6.75E-09±4.56E-09	U			1.66E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.31E-09±2.17E-09	U			1.54E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.16E-09±3.54E-10	U			2.23E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.24E-10±4.18E-10	J	I		4.67E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.47E-10±4.94E-10	U			9.80E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.45E-10±4.30E-10	U			9.63E-10	µCi/mL	GP	RADA-004
1	Tritium	1.86E-05±9.71E-07	U			5.89E-07	µCi/mL	ML	RADA-002

## WELL BGO 39A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 130.31 ft (39.72 m) below TOC  
 Water elevation: 165.59 ft (50.47 m) msl  
 pH: 7.3  
 Sp. conductance: 195 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 113 gal

Time: 11:56  
 Water temperature: 21.1°C  
 Air temperature: 26.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 63 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	83.0				6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	62.3	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U		X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U		X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	28.7	U		X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	8.00	J	I		20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B

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Second Quarter 2001



Well BGO 39A collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	8,800			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	110,000	J	Q	X	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	269	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.40E-08±2.71E-08	U			4.61E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.42E-09±3.83E-09	U			1.79E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	-1.75E-09±2.08E-09	U			1.30E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	8.05E-10±4.48E-10	J	I		5.78E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	5.66E-10±4.05E-10	J	I		5.24E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.40E-10±3.88E-10	JU	I	6	4.20E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.37E-10±5.74E-10	U		6	1.22E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.28E-10±3.75E-10	U			8.98E-10	µCi/mL	GP	RADA-004
0	Tritium	0.00E+00±3.29E-07	U			5.84E-07	µCi/mL	ML	RADA-002

## WELL BGO 39A Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 130.31 ft (39.72 m) below TOC  
 Water elevation: 165.59 ft (50.47 m) msl  
 pH: 7.3  
 Sp. conductance: 195 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 113 gal

Time: 11:56  
 Water temperature: 21.1°C  
 Air temperature: 26.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 63 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	8.99E-09±2.73E-08	U			4.68E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.20E-09±5.73E-10	J	I		6.60E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.66E-10±3.65E-10	U		6	5.74E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.96E-10±4.71E-10	U		6	9.03E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.39E-10±4.60E-10	U			1.01E-09	µCi/mL	GP	RADA-004
0	Strontium-90	-2.17E-10±4.09E-10	U			9.98E-10	µCi/mL	GP	RADA-004
0	Strontium-90	3.04E-11±3.87E-10	U			8.89E-10	µCi/mL	GP	RADA-004

## WELL BGO 39C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 65.98 ft (20.11 m) below TOC  
 Water elevation: 230.42 ft (70.23 m) msl  
 pH: 6.6  
 Sp. conductance: 47 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 58 gal

Time: 13:16  
 Water temperature: 20.4°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	9.50				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.50	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BGO 39C collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U		X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U		X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.390	J	I	X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,580				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	621			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	39,000	J	IQ	X	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	103	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	-7.13E-09±2.63E-08	U			4.60E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.47E-09±5.93E-10	U			1.43E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	1.77E-09±2.41E-09	U			1.16E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	2.56E-10±3.19E-10	U			6.28E-10	µCi/mL	GP	RADA-010
0	Radium-226	7.65E-10±3.39E-10	J	I		3.10E-10	µCi/mL	GP	RADA-008
0	Radium-228	-4.51E-10±6.40E-10	U			1.45E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.75E-10±3.01E-10	U			6.31E-10	µCi/mL	GP	RADA-004
0	Tritium	7.50E-06±6.56E-07	U			5.77E-07	µCi/mL	ML	RADA-002

## WELL BGO 39D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 60.96 ft (18.58 m) below TOC  
 Water elevation: 234.74 ft (71.55 m) msl  
 pH: 4.7  
 Sp. conductance: 34 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 8 gal  
 The well went dry during purging.

Time: 14:21  
 Water temperature: 30°C  
 Air temperature: 31.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	1.00	J	I		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U		X	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.90	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		X	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B

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Well BGO 39D collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.60	J	I	X	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	10.6	J	I	X	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.410	J	I	X	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U		X	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,520	U			40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Sulfate	545	U		X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		X	70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	12,000	J	IQ	X	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	113	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	6.60	J	I	X	53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.51E-08±2.72E-08	U			4.62E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.27E-09±4.18E-09	U			1.70E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	4.82E-09±3.27E-09	U			1.27E-08	µCi/mL	ML	EPA900.0
0	Radium, total alpha-emitting	1.00E-09±5.53E-10	J	I		6.58E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.27E-09±4.55E-10	U			2.93E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.77E-10±6.95E-10	U			1.47E-09	µCi/mL	GP	RADA-009
0	Strontium-90	7.85E-11±2.78E-10	U			6.24E-10	µCi/mL	GP	RADA-004
2	Tritium	2.58E-05±1.11E-06	U			5.83E-07	µCi/mL	ML	RADA-002

## WELL BGO 42C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/08/01  
 Depth to water: 78.62 ft (23.96 m) below TOC  
 Water elevation: 219.28 ft (66.84 m) msl  
 pH: 4.6  
 Sp. conductance: 32 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 50 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	2.50	J	I	X	6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.10	U			1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.10	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	42.4	J	I		266	µg/L	WA	EPA6010B
0	Boron, total recoverable	40.9	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Well BGO 42C collected on 06/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.40	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<6.34	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.720	J	I		2.70	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.680	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,440	U			40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	684	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	43,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	178	J	I		1,000	µg/L	WA	EPA9060
0	Total organic carbon	354	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	44.2	J	I	X	133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	67.1	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	1.08	J	I	X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	10.9	J	I		53.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	6.50	J	I		53.0	µg/L	WA	EPA6010B

## WELL BGO 42C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/08/01  
 Depth to water: 78.62 ft (23.96 m) below TOC  
 Water elevation: 219.28 ft (66.84 m) msl  
 pH: 4.6  
 Sp. conductance: 32 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 50 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	-6.74E-09±1.41E-08	U			2.47E-08	µCi/mL	GP	RADA-003
0	Carbon-14	2.90E-09±1.46E-08	U			2.51E-08	µCi/mL	GP	RADA-003
0	Gross alpha	7.39E-10±6.14E-10	U			1.03E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	4.93E-12±3.10E-10	U			9.38E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.43E-09±9.38E-10	U			1.99E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.58E-10±8.84E-10	U			2.17E-09	µCi/mL	GP	EPA900.0
0	Radium, total alpha-emitting	3.85E-10±3.64E-10	U			5.38E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.75E-10±2.86E-10	U			4.52E-10	µCi/mL	GP	RADA-008
0	Radium-226	3.15E-10±2.90E-10	U			4.45E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.84E-10±4.79E-10	U			9.21E-10	µCi/mL	GP	RADA-009

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Well BGO 42C collected on 06/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-228	6.34E-10±4.90E-10	U				µCi/mL	GP	RADA-009
0	Strontium-90	-2.53E-10±3.29E-10	R	L	I	9.78E-10	µCi/mL	GP	RADA-004
0	Tritium	8.56E-06±7.86E-07				9.25E-07	µCi/mL	GP	RADA-002

**WELL BGO 45B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 63.2 ft (19.26 m) below TOC  
 Water elevation: 215.4 ft (65.65 m) msl  
 pH: 9.4  
 Sp. conductance: 163 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 15:08  
 Water temperature: 22°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 60 mg/L  
 Phenolphthalein alkalinity: 23 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<52.6	U	V		146	µg/L	WA	EPA6010B
0	Aluminum, total recoverable	<39.9	U	V		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	52.2				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	54.3				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	1.40	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.40	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	<74.0	U			74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	10.8	J	I		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.730	JU		4	5.00	µg/L	WA	EPA6010B

**WELL BGO 45C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 59.6 ft (18.17 m) below TOC  
 Water elevation: 219 ft (66.75 m) msl  
 pH: 4.8  
 Sp. conductance: 28 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 10:21  
 Water temperature: 19.1°C  
 Air temperature: 20.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 41 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	127	J	I		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	19.4				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	<8.60	U	V		1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<2.10	U	V		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	15.1	J	I		74.0	µg/L	WA	EPA6010B
1	Iron, total recoverable	220				74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	17.0	J	I		47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	23.4	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B

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Well BGO 45C collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 45D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 54.79 ft (16.7 m) below TOC  
 Water elevation: 223.81 ft (68.22 m) msl  
 pH: 5.1  
 Sp. conductance: 25 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 9:28  
 Water temperature: 19.2°C  
 Air temperature: 18.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
0	Aluminum, total recoverable	<146	U			146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	<8.30	U	V		1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	<8.10	U	V		1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<1.10	U	V		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	<74.0	U			74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	28.2	J	I		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 46B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 50.77 ft (15.47 m) below TOC  
 Water elevation: 214.63 ft (65.42 m) msl  
 pH: 6.4  
 Sp. conductance: 56 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 125 gal

Time: 12:43  
 Water temperature: 21.4°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<44.4	U	V		146	µg/L	WA	EPA6010B
0	Aluminum, total recoverable	<26.9	U	V		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	<3.20	U	V		1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	<3.30	U	V		1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	9.40	J	I		74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	28.5	J	I		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	6.50	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

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**WELL BGO 46C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 48.81 ft (14.88 m) below TOC  
 Water elevation: 216.29 ft (65.93 m) msl  
 pH: 6.4  
 Sp. conductance: 43 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 55 gal

Time: 14:00  
 Water temperature: 24.6°C  
 Air temperature: 34.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<146	U			146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	96.8	J	I		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	14.1				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	15.2				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.80	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	9.60	J	I		74.0	µg/L	WA	EPA6010B
1	Iron, total recoverable	190				74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	7.20	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<0.780	U	V		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 46D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 43.12 ft (13.14 m) below TOC  
 Water elevation: 221.98 ft (67.66 m) msl  
 pH: 5.1  
 Sp. conductance: 56 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 50 gal

Time: 12:44  
 Water temperature: 22.8°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, dissolved	27.5	J	I		146	µg/L	WA	EPA6010B
1	Aluminum, total recoverable	31.6	J	I		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	6.00				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.20				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<0.780	JU		4	7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	37.3	J	I		74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	57.7	J	I		74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	0.515	J	I		0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	0.548	J	I		0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<0.610	U	V		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

**WELL BGO 47C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 48.11 ft (14.66 m) below TOC  
 Water elevation: 219.49 ft (66.9 m) msl  
 pH: 5.7  
 Sp. conductance: 39 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 61 gal

Time: 11:29  
 Water temperature: 22.7°C  
 Air temperature: 34.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<52.9	U	V		146	µg/L	WA	EPA6010B
0	Aluminum, total recoverable	<45.1	U	V		146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	15.1				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	17.0				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	1.90	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	1.70	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	<74.0	U			74.0	µg/L	WA	EPA6010B
0	Iron, total recoverable	83.6				74.0	µg/L	WA	EPA6010B
0	Lead, dissolved	10.2	J	I		47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	16.4	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	0.600	J	I		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<1.00	JU		4	5.00	µg/L	WA	EPA6010B

**WELL BGO 47D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 44.54 ft (13.58 m) below TOC  
 Water elevation: 222.86 ft (67.93 m) msl  
 pH: 5.5  
 Sp. conductance: 54 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 38 gal

Time: 9:40  
 Water temperature: 21.6°C  
 Air temperature: 25.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, dissolved	37.0	J	I		322	µg/L	WA	EPA6010B
1	Aluminum, total recoverable	41.4	J	I		322	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, dissolved	19.7				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	27.4				8.30	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Chromium, dissolved	1.30	J	I		11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	2.40	J	I		11.0	µg/L	WA	EPA6010B
0	Iron, dissolved	<192	U			192	µg/L	WA	EPA6010B
0	Iron, total recoverable	57.8	J	I		192	µg/L	WA	EPA6010B
0	Lead, dissolved	5.90	J	I		24.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	4.90	J	I		24.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Selenium, dissolved	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, dissolved	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B



**WELL BGO 48C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 56.29 ft (17.16 m) below TOC  
 Water elevation: 220.31 ft (67.15 m) msl  
 pH: 6.1  
 Sp. conductance: 68 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 69 gal

Time: 11:32  
 Water temperature: 23.8°C  
 Air temperature: 32°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	20.5	J	I	146	µg/L	WA	EPA6010B	
2	Aluminum, total recoverable	176			146	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	26.9			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	181			1.80	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Chromium, dissolved	<7.00	U		7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	1.50	J	I	7.00	µg/L	WA	EPA6010B	
0	Iron, dissolved	<74.0	U		74.0	µg/L	WA	EPA6010B	
1	Iron, total recoverable	158			74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	12.1	J	I	47.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<0.550	U	V	5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	

**WELL BGO 48D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 53.68 ft (16.36 m) below TOC  
 Water elevation: 223.22 ft (68.04 m) msl  
 pH: 4.8  
 Sp. conductance: 73 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 114 gal

Time: 11:14  
 Water temperature: 22.8°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	171			146	µg/L	WA	EPA6010B	
2	Aluminum, total recoverable	185			146	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	191			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	204			1.80	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Chromium, dissolved	<7.00	U		7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	<7.00	U		7.00	µg/L	WA	EPA6010B	
0	Iron, dissolved	17.7	J	I	74.0	µg/L	WA	EPA6010B	
0	Iron, total recoverable	28.3	J	I	74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	0.160	J	I	0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	0.180	J	I	0.700	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<0.630	U	V	5.00	µg/L	WA	EPA6010B	

**WELL BGO 50C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 40.19 ft (12.25 m) below TOC  
 Water elevation: 215.31 ft (65.63 m) msl  
 pH: 5.2  
 Sp. conductance: 25 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 143 gal

Time: 16:15  
 Water temperature: 21.6°C  
 Air temperature: 35°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<41.7	U	V	146	µg/L	WA	EPA6010B	
0	Aluminum, total recoverable	<71.1	U	V	146	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	4.70			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	5.10			1.80	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Chromium, dissolved	<7.00	U		7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	1.50	J	I	7.00	µg/L	WA	EPA6010B	
0	Iron, dissolved	<74.0	U		74.0	µg/L	WA	EPA6010B	
0	Iron, total recoverable	89.9			74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	

**WELL BGO 50D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 34.21 ft (10.43 m) below TOC  
 Water elevation: 221.79 ft (67.6 m) msl  
 pH: 5.9  
 Sp. conductance: 67 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 10:17  
 Water temperature: 21.7°C  
 Air temperature: 30.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 23 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	53.9	J	I	322	µg/L	WA	EPA6010B	
2	Aluminum, total recoverable	71.8	J	I	322	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<42.0	U		42.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<42.0	U		42.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	12.4			8.30	µg/L	WA	EPA6010B	
0	Barium, total recoverable	13.1			8.30	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	0.560	J	I	4.10	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.10	U		4.10	µg/L	WA	EPA6010B	
0	Chromium, dissolved	<11.0	U		11.0	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	1.10	J	I	11.0	µg/L	WA	EPA6010B	
0	Iron, dissolved	29.2	J	I	192	µg/L	WA	EPA6010B	
0	Iron, total recoverable	22.4	J	I	192	µg/L	WA	EPA6010B	
0	Lead, dissolved	10.0	J	I	24.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	7.60	J	I	24.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.300	U		0.300	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.300	U		0.300	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<31.0	U		31.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<31.0	U		31.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<6.80	U		6.80	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<6.80	U		6.80	µg/L	WA	EPA6010B	



## WELL BGO 53C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 71.81 ft (21.89 m) below TOC  
 Water elevation: 219.09 ft (66.78 m) msl  
 pH: 6.9  
 Sp. conductance: 117 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 11:16  
 Water temperature: 23.7°C  
 Air temperature: 30.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 42 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	52.0				7.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	10.2				8.30	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	8.30	J	I		20.0	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	5.90	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.760	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.400	J	I		0.300	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.80	J	I		4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.310	U		X	114	µg/L	WA	EPA353.2
0	Phenols	<34.0	U			34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	446	U			320	µg/L	WA	EPA300.0
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.96	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	105,000				30,000	µg/L	WA	EPA160.1
0	Total dissolved solids	103,000				30,000	µg/L	WA	EPA160.1
0	Total organic carbon	507	J	I	X	1,400	µg/L	WA	EPA9060
0	Total organic halogens	24.4	J	I		57.8	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	45.4	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.44E-09±8.86E-09	U			1.55E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.06E-08±9.42E-09	U			1.57E-08	µCi/mL	GP	RADA-003
0	Gross alpha	2.24E-11±3.88E-10	U			9.57E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.02E-10±6.55E-10	U			1.55E-09	µCi/mL	GP	EPA900.0
0	Radium, total alpha-emitting	3.33E-10±3.04E-10	U			5.32E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	3.46E-10±3.44E-10	U			6.61E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.02E-09±3.78E-10	U			2.50E-10	µCi/mL	GP	RADA-008
0	Radium-226	1.19E-09±4.30E-10	U			2.81E-10	µCi/mL	GP	RADA-008
0	Radium-228	-3.22E-10±1.38E-09	U	V		3.28E-09	µCi/mL	GP	RADA-009
0	Radium-228	1.25E-09±1.26E-09	U	V		2.66E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.62E-10±2.72E-10	U			5.83E-10	µCi/mL	GP	RADA-004
2	Tritium	8.36E-04±1.63E-05	U		5	2.63E-06	µCi/mL	GP	RADA-002
2	Tritium	9.27E-04±1.82E-05	U		5	2.93E-06	µCi/mL	GP	RADA-002

ESH-EMS-20010585

## WELL BSW 1C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 43.29 ft (13.19 m) below TOC  
 Water elevation: 213.41 ft (65.05 m) msl  
 pH: 5.4  
 Sp. conductance: 28 µS/cm  
 Turbidity: 291 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 11:50  
 Water temperature: 20.7°C  
 Air temperature: 29.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	4.00	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	116				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.880	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	1.70	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	5.30	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	6.30	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.60	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	24.9	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	708	U			20.0	µg/L	WA	EPA353.2
0	Phenols	20.5	J	I		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,520	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	200,000	J	Q		200,000	µg/L	WA	EPA160.1
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	25.9	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	66.2	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.00E-08±1.33E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Gross alpha	6.00E-09±1.59E-09	J	I		3.61E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-6.13E-10±1.19E-09	U			4.92E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	6.00E-10±1.82E-10	U			1.73E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.96E-10±3.40E-10	J	I		3.71E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.37E-09±5.50E-10	U	V		1.00E-09	µCi/mL	GP	RADA-009
2	Strontium-90	4.00E-08±1.44E-09			5	5.66E-10	µCi/mL	GP	RADA-004
2	Tritium	1.37E-03±8.10E-06				6.57E-07	µCi/mL	ML	RADA-002

B-51

Second Quarter 2001



## WELL BSW 1C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 43.36 ft (13.22 m) below TOC  
 Water elevation: 213.34 ft (65.03 m) msl  
 pH: 5.6  
 Sp. conductance: 31 µS/cm  
 Turbidity: 696 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 10:01  
 Water temperature: 30.2°C  
 Air temperature: 37.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total organic carbon	173	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	18.7	J	I	X	133	µg/L	WA	EPA9020B

## WELL BSW 1C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 43.31 ft (13.2 m) below TOC  
 Water elevation: 213.39 ft (65.04 m) msl  
 pH: 6.1  
 Sp. conductance: 109 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:21  
 Water temperature: 21.2°C  
 Air temperature: 28.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	21.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	9.50	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	412				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	41.2	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	12.0				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	11.2	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00			X	5.00	µg/L	WA	EPA6010B
1	Lead, total recoverable	33.3	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	13.9				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.120	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	23.0	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	408				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	16,000				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	590,000	J	Q		500,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,630				1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BSW 1C2 collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	94.1				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-8.06E-09±1.33E-08	U			2.36E-08	µCi/mL	GP	RADA-003
0	Carbon-14	-1.24E-09±1.34E-08	U			2.33E-08	µCi/mL	GP	RADA-003
2	Gross alpha	1.78E-08±5.08E-09	J	I		9.12E-09	µCi/mL	ML	RADA-001
1	Gross alpha	1.23E-08±4.51E-09	J	I		1.01E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.04E-08±3.52E-09	U			1.07E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	5.09E-09±3.01E-09	U			1.13E-08	µCi/mL	ML	RADA-001
2	Radium, total alpha-emitting	1.08E-08±1.98E-09	J	I		2.56E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.06E-10±3.63E-10	J	I		3.87E-10	µCi/mL	GP	RADA-008
1	Radium-228	2.60E-09±6.65E-10				1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.68E-10±2.54E-10	U			5.62E-10	µCi/mL	GP	RADA-004
2	Tritium	5.80E-05±1.72E-06				6.46E-07	µCi/mL	ML	RADA-002

## WELL BSW 1C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 8  
 Sp. conductance: 312 µS/cm  
 Turbidity: 1000 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 14:16  
 Water temperature: 27.3°C  
 Air temperature: 37.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 99 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	104				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	82.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	27.8				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	308				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	2,970				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	145,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	430				1,000	µg/L	WA	EPA9060

B-52

Second Quarter 2001



Well BSW 1C3 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		6	53.0	µg/L	WA	EPA6010B
0	Carbon-14	-9.32E-10±2.66E-08	U			4.63E-08	µCi/mL	GP	RADA-003
0	Gross alpha	2.58E-09±3.80E-09	U			1.94E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.34E-09±3.35E-09	U			1.65E-08	µCi/mL	ML	RADA-001B
1	Radium, total alpha-emitting	2.89E-09±7.61E-10				3.98E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.39E-10±3.91E-10	J	I		2.87E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.06E-09±5.42E-10	J	I		1.01E-09	µCi/mL	GP	RADA-009
0	Strontium-90	4.03E-10±4.10E-10	U			8.67E-10	µCi/mL	GP	RADA-004
2	Tritium	4.91E-05±1.59E-06				6.63E-07	µCi/mL	ML	RADA-002

## WELL BSW 1C4

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 44.6 ft (13.59 m) below TOC  
 Water elevation: 212.1 ft (64.65 m) msl  
 pH: 7.5  
 Sp. conductance: 198 µS/cm  
 Turbidity: 381 NTU  
 Water evacuated from the well prior to sampling: 2 gal

Time: 13:13  
 Water temperature: 22.7°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 48 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	75.4				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO3)	75.4				1,000	mg/L	GE	EPA310.1
0	Alkalinity (as CaCO3)	74.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	6.10	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	79.7				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	61.9				1.80	µg/L	WA	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	8.78	J	I		50.0	µg/L	GE	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<0.456	JU		4	5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BSW 1C4 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	6.20				5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	4.00	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.92	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	3.80	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Hydroxide alkalinity	<1,000	U			1,000	µg/L	GE	SM2320B
0	Lead, total recoverable	19.5				5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	12.9	J	K	I	10.0	µg/L	GE	EPA6020
0	Lithium, total recoverable	8.80				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
1	Nickel, total recoverable	55.1				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	4.40	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,570				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	530				20.0	µg/L	WA	EPA353.2
0	Phenols	<5.00				5.00	µg/L	GE	EPA9066
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.780	JU		4	5.00	µg/L	WA	EPA6010B
0	Sulfate	10,500				200	µg/L	GE	EPA9056
0	Sulfate	10,500			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	3.42	J	I		10.0	µg/L	GE	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<0.251	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	282,000	J	Q		10,000	µg/L	GE	EPA160.1
0	Total dissolved solids	154,000	J	Q		143,000	µg/L	WA	EPA160.1
0	Total organic carbon	8,350				5,000	µg/L	GE	EPA9060
0	Total organic carbon	<741	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	5.00	J	IQ		10.0	µg/L	GE	EPA9020B
0	Total organic halogens	4.66	J	IQ		10.0	µg/L	GE	EPA9020B
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BSW 1C4 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<3.00	JU	L	O	3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	68.4				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	23.1	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.20E-08±1.30E-08	U			2.33E-08	µCi/mL	GP	RADA-003
1	Gross alpha	1.49E-08±1.96E-09	J	L	I	1.98E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	9.97E-09±4.26E-09	U			1.08E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	8.72E-09±1.43E-09	J	K	I	2.73E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.71E-09±1.98E-09	U			1.16E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	5.51E-10±2.53E-10	U	V		2.83E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.21E-10±2.70E-10	J	I		2.81E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.75E-10±4.80E-10	J	I		8.92E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.78E-11±3.52E-10	U	V		8.03E-10	µCi/mL	GP	RADA-004
0	Tritium	8.93E-06±8.03E-07				9.36E-07	µCi/mL	GP	RADA-002
0	Tritium	8.01E-06±7.11E-07	U		6	6.30E-07	µCi/mL	ML	RADA-002

## WELL BSW 1C4 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 44.6 ft (13.59 m) below TOC  
 Water elevation: 212.1 ft (64.65 m) msl  
 pH: 7.5  
 Sp. conductance: 198 µS/cm  
 Turbidity: 381 NTU  
 Water evacuated from the well prior to sampling: 2 gal

Time: 13:13  
 Water temperature: 22.7°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 48 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	73.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	4.10	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	57.3				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.90	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	8.00				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	33.0				26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	510				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066

ESH-EMS-20010585

Well BSW 1C4 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.770	JU		4	5.00	µg/L	WA	EPA6010B
0	Sulfate	9,750		X		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	235,000	J	Q		125,000	µg/L	WA	EPA160.1
0	Total organic carbon	<507	JU	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	25.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.08E-08±1.33E-08	U			2.23E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.68E-09±1.99E-09	U			9.26E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	8.80E-10±2.25E-09	U			1.08E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	6.98E-10±2.80E-10	U	V		2.96E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.42E-10±3.54E-10	J	I		4.75E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.07E-10±5.86E-10	U			1.21E-09	µCi/mL	GP	RADA-009
0	Strontium-90	6.82E-11±3.61E-10	U	V		8.22E-10	µCi/mL	GP	RADA-004
0	Tritium	2.42E-08±3.50E-07	U		6	6.18E-07	µCi/mL	ML	RADA-002

## WELL BSW 1D1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 37.99 ft (11.58 m) below TOC  
 Water elevation: 218.61 ft (66.63 m) msl  
 pH: 5.9  
 Sp. conductance: 114 µS/cm  
 Turbidity: 531 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:56  
 Water temperature: 22.5°C  
 Air temperature: 30.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 25 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	27.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	6.30	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	100				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	1.26	J	I	X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	6.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.40	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	9.75			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	14.6	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.50				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.120	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	4.40	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	360				20.0	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	357				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066

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Second Quarter 2006



Well BSW 1D1 collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	5,650				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	175,000	J		IQ	250,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,790				1,000	µg/L	WA	EPA9060
0	Total organic halogens	44.5	J		IQ	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.19	J		I	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	36.1	J		I	53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.08E-08±1.43E-08	U			2.35E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.73E-09±2.97E-09	U			9.89E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.90E-09±2.50E-09	U			1.12E-08	µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	3.84E-09±9.43E-10				1.63E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.96E-09±4.91E-10				2.28E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.67E-09±6.52E-10	J		I	1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.94E-10±1.63E-10	U			4.60E-10	µCi/mL	GP	RADA-004
2	Tritium	3.33E-03±1.26E-05				6.35E-07	µCi/mL	ML	RADA-002

## WELL BSW 1D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 38.1 ft (11.61 m) below TOC  
 Water elevation: 218.5 ft (66.6 m) msl  
 pH: 5.3  
 Sp. conductance: 32 µS/cm  
 Turbidity: 53 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 9:50  
 Water temperature: 20°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<2.75	U	V		6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	<2.75	U	V		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.50				1.80	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, total recoverable	3.30	J		I	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.20	J		I	15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.640	J		I	2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.70	J		I	26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	521				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU		Q	37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.900	JU			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,530				340	µg/L	WA	EPA9056
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Total dissolved solids	55,700	J		IQ	71,400	µg/L	WA	EPA160.1
0	Total organic halogens	23.6	J		IQ	120	µg/L	WA	EPA9020B
0	Zinc, total recoverable	15.5	J		I	53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.00E-09±1.36E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.77E-09±1.36E-09	J		I	3.72E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.05E-11±1.23E-09	U			4.99E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.44E-10±8.90E-11	J		I	1.17E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	6.40E-11±8.30E-11	U			1.76E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.99E-10±2.98E-10	U			4.69E-10	µCi/mL	GP	RADA-008
0	Radium-228	5.65E-10±5.64E-10	U		V	1.17E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.66E-10±4.33E-10	U			9.21E-10	µCi/mL	GP	RADA-004
2	Tritium	3.89E-03±1.36E-05				6.57E-07	µCi/mL	ML	RADA-002

## WELL BSW 1D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 38.1 ft (11.61 m) below TOC  
 Water elevation: 218.5 ft (66.6 m) msl  
 pH: 5.1  
 Sp. conductance: 30 µS/cm  
 Turbidity: 100 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:29  
 Water temperature: 30.2°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	3.68	J		I	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.15	J		I	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	Total organic carbon	522	J		I	1,000	µg/L	WA	EPA9060
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	20.7			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL BSW 1D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<3.50	U	V		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.90				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU		Q	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	33.9	J		I	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	JU		Q	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU		Q	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU		Q	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	JU		Q	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU		Q	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU		Q	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.32	J		IQ	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	JU		Q	10.0	µg/L	WA	EPA8260B
0	Chloroform	9.74	J		Q	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU		Q	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.830	JU			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B



Well BSW 1D3 collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	6.35	J	Q	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.470	J	I		2.70	µg/L	WA	EPA6010B
1	Mercury, total recoverable	1.41				0.700	µg/L	WA	EPA7470A
1	Mercury, total recoverable	1.36				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	4.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	862				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	692				340	µg/L	WA	EPA9056
0	Sulfate	687				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.61	J	I	X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	JU	Q	X8	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	41,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	38,000	J	I		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,520				1,000	µg/L	WA	EPA9060
2	Total organic halogens	224	J	Q	X	133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	29.2	J	Q	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	Q	X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	10.8	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.90E-08±1.49E-08	U			2.47E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.22E-09±4.67E-10	J	I		4.88E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.49E-10±3.74E-10	J	I		4.58E-10	µCi/mL	GP	RADA-008
0	Radium-228	3.46E-10±6.84E-10	U			1.44E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.59E-10±3.30E-10	R	L	I	7.98E-10	µCi/mL	GP	RADA-004

## WELL BSW 1D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 38.2 ft (11.64 m) below TOC  
 Water elevation: 218.4 ft (66.57 m) msl  
 pH: 4.5  
 Sp. conductance: 49 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:11  
 Water temperature: 22.9°C  
 Air temperature: 29.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Gross alpha	3.68E-09±3.63E-09	JU	L	C	1.63E-08	µCi/mL	ML	RADA-001
0	Gross alpha	1.33E-10±2.75E-09	JU	L	C	1.72E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-6.90E-10±2.47E-09	U			1.33E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.16E-09±2.36E-09	U			1.37E-08	µCi/mL	ML	RADA-001
2	Tritium	1.58E-02±2.65E-05	J	K	I	5.89E-07	µCi/mL	ML	RADA-002
2	Tritium	1.63E-02±2.66E-05	J	K	I	5.76E-07	µCi/mL	ML	RADA-002

## WELL BSW 2C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 26.7 ft (8.14 m) below TOC  
 Water elevation: 214.7 ft (65.44 m) msl  
 pH: 5.9  
 Sp. conductance: 235 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:16  
 Water temperature: 18.7°C  
 Air temperature: 19.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	25.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	309				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	27.3	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.540	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	13.2				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	29.5	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	16.1				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	18.8	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	966				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	57,400			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	540,000				333,000	µg/L	WA	EPA160.1
0	Total organic carbon	171	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.59	J	I		5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	120				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.04E-08±1.86E-08	U			3.25E-08	µCi/mL	GP	RADA-003
2	Gross alpha	1.94E-08±5.73E-09	J	I		1.46E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.94E-10±2.69E-09	U			1.19E-08	µCi/mL	ML	RADA-001B
1	Radium, total alpha-emitting	4.19E-09±1.03E-09				5.53E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.49E-10±3.59E-10	J	I		4.27E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.74E-09±6.96E-10	J	I		1.29E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.92E-10±4.33E-10	U			1.15E-09	µCi/mL	GP	RADA-004
2	Tritium	3.39E-05±1.28E-06				6.06E-07	µCi/mL	ML	RADA-002



## WELL BSW 2C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 28.8 ft (8.78 m) below TOC  
 Water elevation: 212.6 ft (64.8 m) msl  
 pH: 6.4  
 Sp. conductance: 118 µS/cm  
 Turbidity: 643 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:59  
 Water temperature: 24.5°C  
 Air temperature: 31.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	15.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	61.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	1.06	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	5.90	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.70	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	9.70	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.90				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	9.70	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	978				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	8,680				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<135,000	U			250,000	µg/L	WA	EPA160.1
0	Total organic carbon	210	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	53.2				53.0	µg/L	WA	EPA6010B
0	Carbon-14	6.63E-09±1.94E-08	U			3.30E-08	µCi/mL	GP	RADA-003
0	Gross alpha	7.03E-09±3.98E-09	U			1.46E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.14E-09±1.87E-09	U			1.19E-08	µCi/mL	ML	RADA-001B
2	Radium, total alpha-emitting	5.53E-09±1.23E-09				7.76E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.49E-10±4.74E-10	U			6.49E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.00E-09±5.36E-10	U			1.02E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.90E-10±3.38E-10	U			6.98E-10	µCi/mL	GP	RADA-004
2	Tritium	2.67E-05±1.17E-06				6.22E-07	µCi/mL	ML	RADA-002

## WELL BSW 2C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 28.01 ft (8.54 m) below TOC  
 Water elevation: 213.39 ft (65.04 m) msl  
 pH: 6.1  
 Sp. conductance: 84 µS/cm  
 Turbidity: 643 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:00  
 Water temperature: 22.2°C  
 Air temperature: 30.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	18.5				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	74.4				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	1.74	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	8.30				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.00	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	11.2	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.40				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	17.8	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,060				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	7,750				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<210,000	U		V	250,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	43.4	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-3.75E-09±2.79E-08	U			4.86E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.52E-09±2.90E-09	U			1.47E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	1.69E-09±2.63E-09	U			1.19E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.54E-09±4.14E-10				2.11E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.93E-10±2.40E-10	J	I		2.01E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.18E-09±7.17E-10	J	I		1.24E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.08E-10±1.65E-10	U			2.89E-10	µCi/mL	GP	RADA-004
0	Strontium-90	5.06E-11±3.64E-10	U			6.24E-10	µCi/mL	GP	RADA-004
2	Tritium	4.19E-05±1.37E-06				5.49E-07	µCi/mL	ML	RADA-002



## WELL BSW 2D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: 22.63 ft (6.9 m) below TOC  
 Water elevation: 219.27 ft (66.83 m) msl  
 pH: 5.5  
 Sp. conductance: 67 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:52  
 Water temperature: 20.8°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 21 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	23.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	8.00	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	312				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	16.2				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	6.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	33.7	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	8.30				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	6.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	182				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	3,570				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<460,000	U			1,000,000	µg/L	WA	EPA160.1
0	Total organic carbon	205	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	54.8				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.40E-08±2.73E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.78E-09±1.72E-09	U			1.56E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-2.42E-09±2.05E-09	U			1.23E-08	µCi/mL	ML	RADA-001B
1	Radium, total alpha-emitting	3.55E-09±9.66E-10				5.74E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.11E-09±6.63E-10				4.07E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.64E-09±6.33E-10	J	I		1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.21E-10±4.73E-10	U			1.10E-09	µCi/mL	GP	RADA-004
0	Tritium	3.45E-06±5.00E-07				5.60E-07	µCi/mL	ML	RADA-002

## WELL BSW 2D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 23.04 ft (7.02 m) below TOC  
 Water elevation: 218.86 ft (66.71 m) msl  
 pH: 4.7  
 Sp. conductance: 27 µS/cm  
 Turbidity: 3 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:14  
 Water temperature: 22.5°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<1.50	U	V		6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	<1.25	U	V		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.70				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	5.16	J	IL	OX	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.89	J	IL	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.00	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	3.38	J	IL	OX	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	3.41	J	IL	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	1.55	J	IL	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	1.33	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.600	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	8.30	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,320				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	463				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.98	J	IL	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.78	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B



Well BSW 2D3 collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	44,000	J	IQ		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	536	J	I		1,000	µg/L	WA	EPA9060
1	Total organic halogens	90.5	J	IQ	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	23.7	J	L	OX	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	25.0	J	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.78E-09±1.32E-08	U			2.29E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.58E-09±2.17E-09	U			7.60E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	8.07E-10±1.44E-09	U			6.60E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	8.91E-10±4.86E-10	J	I		6.13E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	9.06E-10±3.75E-10	J	I		2.99E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.93E-10±3.46E-10	J	I		3.73E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.22E-09±6.22E-10	J	I		1.18E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.12E-10±3.36E-10	R	L	I	8.37E-10	µCi/mL	GP	RADA-004
2	Tritium	1.02E-02±2.17E-05	U			6.44E-07	µCi/mL	ML	RADA-002

## WELL BSW 3D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: 39.15 ft (11.93 m) below TOC  
 Water elevation: 220.35 ft (67.16 m) msl  
 pH: 5.3  
 Sp. conductance: 110 µS/cm  
 Turbidity: 25 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:23  
 Water temperature: 22.1°C  
 Air temperature: 30.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	25.5	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	1.72	J	I		5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	1.57	J	I		5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	4.42	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroform	4.16	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BSW 3D2 collected on 05/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.10	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.606	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
1	Nitrate-nitrite as nitrogen	7.260	U			200	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	748	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.12	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.08	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	95,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	298	J	I		1,000	µg/L	WA	EPA9060
1	Total organic halogens	58.2	J	I		120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	50.9	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	48.7	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.68E-07±2.29E-08	U			3.24E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.72E-07±2.29E-08	U			3.24E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.18E-09±3.40E-09	U			1.43E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	7.03E-10±2.51E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
1	Radium, total alpha-emitting	2.93E-09±8.55E-10	U			5.71E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.03E-10±3.69E-10	J	I		4.69E-10	µCi/mL	GP	RADA-008
0	Radium-226	5.53E-10±4.04E-10	U			5.53E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.93E-10±5.57E-10	U			1.11E-09	µCi/mL	GP	RADA-009
0	Radium-228	9.78E-10±5.22E-10	U			1.01E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-7.17E-11±3.74E-10	U			9.28E-10	µCi/mL	GP	RADA-004
0	Strontium-90	2.14E-10±5.21E-10	U			1.19E-09	µCi/mL	GP	RADA-004
2	Tritium	1.08E-03±6.87E-06	U			5.70E-07	µCi/mL	ML	RADA-002

## WELL BSW 4C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 49.76 ft (15.17 m) below TOC  
 Water elevation: 217.84 ft (66.4 m) msl  
 pH: 7  
 Sp. conductance: 493 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:16  
 Water temperature: 18.5°C  
 Air temperature: 20.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 82 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	176				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	8.00	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	828	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	34.4	J	I		266	µg/L	WA	EPA6010B

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Second Quarter 2001



Well BSW 4C1 collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	11.3	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	7.60	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	48.1	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	22.8	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	34.2	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	62.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	89,000	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	1,430,000	U			500,000	µg/L	WA	EPA160.1
0	Total organic carbon	224	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	109	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.33E-08±2.75E-08	U			4.92E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.16E-09±4.60E-09	U			1.93E-08	µCi/mL	ML	RADA-001B
0	Gross alpha	1.05E-08±5.94E-09	U			1.94E-08	µCi/mL	ML	RADA-001B
0	Gross alpha	1.05E-08±5.94E-09	U			1.94E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	5.39E-09±3.98E-09	U			1.65E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-5.65E-10±3.18E-09	U			1.65E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-5.65E-10±3.18E-09	U			1.65E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.14E-09±3.64E-10	U			2.89E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.38E-10±4.03E-10	J	I		3.91E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.07E-09±6.67E-10	J	I		1.14E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.49E-10±4.54E-10	U			1.02E-09	µCi/mL	GP	RADA-004
0	Tritium	1.75E-06±4.26E-07	U			5.75E-07	µCi/mL	ML	RADA-002

## WELL BSW 4C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
Depth to water: Not available  
Water elevation: Not available  
pH: 6.8  
Sp. conductance: 200 µS/cm  
Turbidity: 85 NTU  
No water was evacuated from the well prior to sampling.

Time: 11:41  
Water temperature: 22.8°C  
Air temperature: 31.5°C  
Total alkalinity (as CaCO<sub>3</sub>): 61 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	54.0				6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	87.1				1.80	µg/L	WA	EPA6010B

Well BSW 4C2 collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.40	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.30	JU	L		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		C	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.40	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	12.0	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	89.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	17,000	JU	Q		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<148,000	JU			200,000	µg/L	WA	EPA160.1
0	Total organic carbon	111	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	21.4	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.48E-09±2.79E-08	U			4.81E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.12E-09±6.04E-10	U			1.54E-08	µCi/mL	ML	RADA-001B

ESH-EMS-20010585

B-60

Second Quarter 2001



Well BSW 4C2 collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nonvolatile beta	-1.22E-09±2.50E-09	U			1.49E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	5.71E-10±2.55E-10	J	I		2.65E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	1.38E-09±5.34E-10	J	I		4.36E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.39E-10±3.51E-10	U			5.17E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.20E-10±7.85E-10	U			1.58E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-9.50E-11±3.37E-10	U			8.48E-10	µCi/mL	GP	RADA-004
1	Tritium	1.69E-05±9.25E-07				5.82E-07	µCi/mL	ML	RADA-002

**WELL BSW 4D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01

Depth to water: Not available

Water elevation: Not available

pH: Not available

Sp. conductance: Not available

Turbidity: Not available

No water was evacuated from the well prior to sampling.

Time: 9:15

Water temperature: Not available

Air temperature: 23.3°C

Total alkalinity (as CaCO<sub>3</sub>): Not available

Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	3.50	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	34.5				1.80	µg/L	WA	EPA6010B
1	Benzene	4.94	J	I	X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
1	Chloroethene (Vinyl chloride)	1.03	J	I	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	4.07	J	I	X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.24	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.800	J	I		2.70	µg/L	WA	EPA6010B
2	Mercury, total recoverable	5.66				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.880				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	433				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	21.4			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	63,300	J	I		83,300	µg/L	WA	EPA160.1
0	Total organic carbon	1,170				1,000	µg/L	WA	EPA9060
2	Total organic halogens	317			X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	64.3			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	5.60	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	3.71E-07±3.81E-08				4.62E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.74E-11±2.11E-09	U			1.50E-08	µCi/mL	ML	RADA-001B

ESH-EMS-20010585

Well BSW 4D2 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nonvolatile beta	-3.37E-09±2.06E-09	U			1.47E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	1.83E-09±6.17E-10				5.39E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.78E-10±4.21E-10	J	I		5.64E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.72E-10±5.52E-10	U			1.07E-09	µCi/mL	GP	RADA-009
0	Strontium-90	5.87E-11±2.63E-10	U			5.61E-10	µCi/mL	GP	RADA-004
2	Tritium	2.74E-02±3.52E-05				6.16E-07	µCi/mL	ML	RADA-002

**WELL BSW 4D3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01

Depth to water: 49.26 ft (15.01 m) below TOC

Water elevation: 219.34 ft (66.86 m) msl

pH: 5.1

Sp. conductance: 81 µS/cm

Turbidity: 109 NTU

No water was evacuated from the well prior to sampling.

Time: 13:09

Water temperature: 24°C

Air temperature: 36.9°C

Total alkalinity (as CaCO<sub>3</sub>): 15 mg/L

Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<5.00	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	35.4				1.80	µg/L	WA	EPA6010B
2	Benzene	5.31			X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	26.9	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.480	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	2.56	J	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	4.57	J	I	X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	1.50	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.85	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.04	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	1.26	J	I	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.80	J	I		2.70	µg/L	WA	EPA6010B
2	Mercury, total recoverable	5.13				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	11.4	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,620				100	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	1,620				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	611				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	16.1			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	80,000	J	I		90,900	µg/L	WA	EPA160.1
0	Total organic carbon	950	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	403	J	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	96.6			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	12.2	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	3.55E-07±2.32E-08				2.33E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.73E-09±1.76E-09	U			7.93E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.50E-09±1.69E-09	U			6.74E-09	µCi/mL	ML	RADA-001

B-61

Second Quarter 2001



Well BSW 4D3 collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Radium, total alpha-emitting	2.57E-09±7.66E-10				4.50E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.04E-09±5.88E-10				3.81E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.17E-09±6.90E-10	U			1.37E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.97E-10±3.36E-10	R	L	I	8.33E-10	µCi/mL	GP	RADA-004
2	Tritium	1.73E-02±2.82E-05				6.38E-07	µCi/mL	ML	RADA-002

**WELL BSW 5C1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 9.3  
 Sp. conductance: 150 µS/cm  
 Turbidity: 17 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:58  
 Water temperature: 21.1°C  
 Air temperature: 22.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 67 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	62.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	41.6				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.08	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.00	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.140	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	10.9	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,070				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	3,640	J	Q		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	120,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,500				1,000	µg/L	WA	EPA9060
0	Total organic halogens	13.9	J	IQ	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.01				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	5.26E-09±1.38E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.08E-09±2.56E-09	U			8.55E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.39E-09±2.41E-09	U			1.04E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.21E-09±5.61E-10	J	I		1.83E-10	µCi/mL	GP	RADA-010

ESH-EMS-20010585

Well BSW 5C1 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	2.14E-10±2.42E-10	U			3.84E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.06E-10±5.26E-10	U			1.08E-09	µCi/mL	GP	RADA-009
0	Strontium-90	7.22E-11±2.71E-10	U			6.30E-10	µCi/mL	GP	RADA-004
2	Tritium	4.37E-04±4.52E-06				6.19E-07	µCi/mL	ML	RADA-002

**WELL BSW 5C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: 46.04 ft (14.03 m) below TOC  
 Water elevation: 211.16 ft (64.36 m) msl  
 pH: 7.2  
 Sp. conductance: 285 µS/cm  
 Turbidity: 15 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:11  
 Water temperature: 22.7°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 93 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	106				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	62.7				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.40	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.50				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.160	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.20	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	872				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	26,500	J	Q		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	201,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,270				1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	5.10				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.00E-08±1.32E-08	U			2.23E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.72E-09±2.02E-09	U			9.42E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.06E-09±1.97E-09	U			1.09E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	4.08E-10±3.27E-10	U	V		1.84E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.10E-10±3.19E-10	J	I		3.93E-10	µCi/mL	GP	RADA-008

B-62

Second Quarter 2001



Well BSW 5C2 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-228	9.14E-10±5.89E-10	U			1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	7.90E-11±2.64E-10	U			6.09E-10	µCi/mL	GP	RADA-004
2	Tritium	2.74E-04±3.54E-06				6.04E-07	µCi/mL	ML	RADA-002

**WELL BSW 5C3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: 46.05 ft (14.04 m) below TOC  
 Water elevation: 210.95 ft (64.3 m) msl  
 pH: 8.4  
 Sp. conductance: 224 µS/cm  
 Turbidity: 8 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:11  
 Water temperature: 23°C  
 Air temperature: 31.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 86 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	85.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<27.0				27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	4.00	J	I		40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	31.1				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	31.1				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.30	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Dichloromethane	4.61	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.50				2.70	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.20				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.130	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nickel, total recoverable	5.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	328				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	15,300	J	Q		340	µg/L	WA	EPA9056
0	Sulfate	15,600	J	Q		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	156,000	J	Q		50,000	µg/L	WA	EPA160.1

ESH-EMS-20010585

Well BSW 5C3 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total dissolved solids	146,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,240				1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.07		I	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	8.50E-09±1.32E-08	U			2.23E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.16E-09±4.54E-10	U			1.00E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	4.60E-09±2.77E-09	U			1.12E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.00E-10±2.26E-10	U	V		1.80E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.05E-11±2.22E-10	U			4.27E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.74E-10±4.42E-10	U			8.66E-10	µCi/mL	GP	RADA-009
0	Strontium-90	7.21E-11±2.87E-10	U			6.67E-10	µCi/mL	GP	RADA-004
2	Tritium	2.83E-05±1.19E-06				6.15E-07	µCi/mL	ML	RADA-002

**WELL BSW 5C4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 46.26 ft (14.1 m) below TOC  
 Water elevation: 210.94 ft (64.3 m) msl  
 pH: 7.3  
 Sp. conductance: 277 µS/cm  
 Turbidity: 6 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:06  
 Water temperature: 21.8°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 99 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	100				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	29.8				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.80				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	38.5				26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	503				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	23,700			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well BSW 5C4 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total dissolved solids	173,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	170,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	305	J	I		1,000	µg/L	WA	EPA9060
0	Total organic carbon	360	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<171	JU	Q	X	171	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	7.87	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-9.32E-09±1.32E-08	U			2.34E-08	µCi/mL	GP	RADA-003
1	Gross alpha	1.34E-08±4.63E-09	J	I		9.82E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-4.44E-10±2.31E-09	U			1.11E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.90E-10±1.76E-10	U	V		7.70E-11	µCi/mL	GP	RADA-010
0	Radium-226	6.11E-10±2.78E-10	J	I		2.59E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.06E-09±5.20E-10	J	I		9.70E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-4.68E-12±2.70E-10	U			6.46E-10	µCi/mL	GP	RADA-004
0	Tritium	4.26E-06±5.61E-07	U			6.12E-07	µCi/mL	ML	RADA-002

**WELL BSW 5D1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 42 ft (12.8 m) below TOC  
 Water elevation: 215.2 ft (65.59 m) msl  
 pH: 5.9  
 Sp. conductance: 106 µS/cm  
 Turbidity: 345 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:16  
 Water temperature: 22.4°C  
 Air temperature: 27.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 37 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	28.0				6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	149	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.90	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	8.00	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	7.50	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.215	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	28.6	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	214	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	2,180	U			340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well BSW 5D1 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	192,000	J	IQ		200,000	µg/L	WA	EPA160.1
0	Total organic carbon	475	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	35.9	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	3.70E-09±1.38E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Gross alpha	8.63E-09±3.69E-09	U			9.34E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-2.53E-09±1.85E-09	U			1.09E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.22E-09±5.07E-10	U			8.20E-11	µCi/mL	GP	RADA-010
0	Radium-226	1.03E-09±3.75E-10	U		6	2.45E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.96E-10±5.67E-10	U			1.11E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-9.68E-11±1.99E-10	U			5.13E-10	µCi/mL	GP	RADA-004
2	Tritium	3.55E-04±4.11E-06	U			6.29E-07	µCi/mL	ML	RADA-002

**WELL BSW 5D1 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 42 ft (12.8 m) below TOC  
 Water elevation: 215.2 ft (65.59 m) msl  
 pH: 5.9  
 Sp. conductance: 106 µS/cm  
 Turbidity: 345 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:16  
 Water temperature: 22.4°C  
 Air temperature: 27.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 37 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	5.47E-09±1.38E-08	U			2.36E-08	µCi/mL	GP	RADA-003
1	Radium, total alpha-emitting	2.90E-09±5.63E-10	U			7.70E-11	µCi/mL	GP	RADA-010
0	Radium-226	4.42E-10±3.33E-10	U		6	4.80E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.44E-09±5.41E-10	J	I		9.64E-10	µCi/mL	GP	RADA-009
0	Strontium-90	1.39E-10±2.20E-10	U			4.88E-10	µCi/mL	GP	RADA-004

**WELL BSW 5D2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 42.01 ft (12.8 m) below TOC  
 Water elevation: 215.29 ft (65.62 m) msl  
 pH: 5.3  
 Sp. conductance: 50 µS/cm  
 Turbidity: 49 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 9:57  
 Water temperature: 20.7°C  
 Air temperature: 36.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	5.00	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	18.6	U			1.80	µg/L	WA	EPA6010B
1	Benzene	3.00	J	I	X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	41.8	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.50	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014

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Second Quarter 2001



Well BSW 5D2 collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	18.8			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<1.60	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	419				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,830				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	2.64	J	I	X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	64,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	2,230				1,000	µg/L	WA	EPA9060
2	Total organic halogens	250	J	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	28.6			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	2.46	J	I	X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	27.6	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.29E-08±1.42E-08				2.38E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.60E-09±2.13E-09	J	I		5.58E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.33E-09±1.72E-09	U			7.17E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	4.85E-10±3.99E-10	U			5.90E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.09E-10±2.85E-10	J	I		2.67E-10	µCi/mL	GP	RADA-008
0	Radium-228	4.53E-10±6.70E-10	U			1.43E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.04E-11±1.96E-10	U			4.82E-10	µCi/mL	GP	RADA-004
2	Tritium	8.88E-03±2.04E-05				6.12E-07	µCi/mL	ML	RADA-002

## WELL BSW 5D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 42.06 ft (12.82 m) below TOC  
 Water elevation: 215.34 ft (65.64 m) msl  
 pH: 5.2  
 Sp. conductance: 44 µS/cm  
 Turbidity: 269 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 11:53  
 Water temperature: 22.1°C  
 Air temperature: 34.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	3.50	J	I		6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	46.7				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	8.38	J	I	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.70	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.00	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Well BSW 5D3 collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	1,1-Dichloroethane	17.3			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<1.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.0800	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.00	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,230				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	974				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.75	J	I	X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	183,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,720				1,000	µg/L	WA	EPA9060
2	Total organic halogens	101	J	IQ	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	23.0			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	19.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.31E-09±1.37E-08				2.37E-08	µCi/mL	GP	RADA-003
1	Gross alpha	7.99E-09±2.55E-09	J	I		5.87E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-8.31E-10±1.58E-09	U			7.35E-09	µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	2.80E-09±8.28E-10				6.04E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.06E-09±5.44E-10	U			3.25E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.37E-09±7.30E-10	U			1.42E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.26E-10±2.16E-10	U			4.52E-10	µCi/mL	GP	RADA-004
2	Tritium	5.68E-03±1.65E-05				6.29E-07	µCi/mL	ML	RADA-002

## WELL BSW 6C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 33.83 ft (10.31 m) below TOC  
 Water elevation: 210.27 ft (64.09 m) msl  
 pH: 9.3  
 Sp. conductance: 215 µS/cm  
 Turbidity: 33 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 10:00  
 Water temperature: 23.3°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 77 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	58.0				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	60.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	97.2				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.30	J	I	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	22.7				5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.40	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.00	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B

B-65

Second Quarter 2001



Well BSW 6C1 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	1,1-Dichloroethane	39.4				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethylene	6.02				5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	9.20	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.50				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.80	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	411				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	35,400				1,700	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.46	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	1.36	J	I		5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	240,000	J	Q		200,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,190				1,000	µg/L	WA	EPA9060
2	Total organic halogens	156	J	IQ	X	240	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	54.2				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	23.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.11E-08±1.41E-08	U			2.31E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.33E-09±2.63E-09	U			9.21E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.91E-09±1.74E-09	U			7.24E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	3.95E-10±2.16E-10	J	I		2.72E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.69E-10±3.79E-10	J	I		3.75E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.85E-10±4.74E-10	U	V		9.17E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-2.05E-10±3.26E-10	U			8.02E-10	µCi/mL	GP	RADA-004
2	Tritium	1.18E-02±2.35E-05				6.55E-07	µCi/mL	ML	RADA-002

## WELL BSW 6C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 34.83 ft (10.62 m) below TOC  
 Water elevation: 209.27 ft (63.79 m) msl  
 pH: 5.5  
 Sp. conductance: 73 µS/cm  
 Turbidity: 83 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:56  
 Water temperature: 25°C  
 Air temperature: 36.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	12.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<2.90	JU		4	27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	52.5				1.80	µg/L	WA	EPA6010B
0	Benzene	1.03	J	I		5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	6.69	J	I		10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	22.7				5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.20	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	1.80	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BSW 6C2 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	1,1-Dichloroethane	44.2				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethylene	4.06	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.20	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.10				2.70	µg/L	WA	EPA6010B
2	Mercury, total recoverable	3.19				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	8.80	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	859				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,050				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	5.11				5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	67,500	J	IQ		125,000	µg/L	WA	EPA160.1
0	Total organic carbon	2,380				1,000	µg/L	WA	EPA9060
2	Total organic halogens	339	J	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	44.9				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	27.9	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.85E-08±1.39E-08	U			2.29E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.97E-09±2.40E-09	U			8.42E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	8.49E-10±1.51E-09	U			6.94E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	9.40E-11±1.07E-10	U			1.89E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	1.58E-10±1.47E-10	U			2.41E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.44E-10±3.84E-10	J	I		3.58E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.40E-10±4.25E-10	U	V		8.14E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-1.60E-10±4.06E-10	U			9.68E-10	µCi/mL	GP	RADA-004
2	Tritium	2.74E-02±3.57E-05				6.50E-07	µCi/mL	ML	RADA-002

## WELL BSW 6C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 34.16 ft (10.41 m) below TOC  
 Water elevation: 209.74 ft (63.93 m) msl  
 pH: 6  
 Sp. conductance: 93 µS/cm  
 Turbidity: 311 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 13:06  
 Water temperature: 25.3°C  
 Air temperature: 36.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 31 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	25.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	126				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	2.56	J	I		10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	20.6				5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	7.10				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

B-66

Second Quarter 2001



Well BSW 6C3 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	1,1-Dichloroethane	43.1				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethylene	4.73	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	1.55	J	I		5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	6.80	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.90				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	14.7	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,030				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	8,500				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.12	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	104,000	J	IQ		200,000	µg/L	WA	EPA160.1
0	Total organic carbon	1,500				1,000	µg/L	WA	EPA9060
2	Total organic halogens	194	J	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	45.0				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	35.8	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.00E-08±1.36E-08				2.29E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.17E-09±2.34E-09	U			9.16E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.03E-09±1.20E-09	U			7.22E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	5.18E-10±2.47E-10	J	I		2.90E-10	µCi/mL	GP	RADA-010
1	Radium-226	2.57E-09±6.11E-10				2.70E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.18E-09±5.54E-10	U	V		1.03E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.78E-10±4.09E-10	U			7.13E-10	µCi/mL	GP	RADA-004
2	Tritium	1.51E-02±2.65E-05				6.50E-07	µCi/mL	ML	RADA-002

## WELL BSW 6C4

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 34.93 ft (10.65 m) below TOC  
 Water elevation: 209.17 ft (63.76 m) msl  
 pH: 7.4  
 Sp. conductance: 258 µS/cm  
 Turbidity: 38 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:38  
 Water temperature: 25.7°C  
 Air temperature: 40.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 103 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	104				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	44.6				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well BSW 6C4 collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	2.56	J	I		10.0	µg/L	WA	EPA8260B
0	Chloromethane	2.60	J	I		10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.60	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	4.90				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	494				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	17,600				1,700	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	165,000				50,000	µg/L	WA	EPA160.1
0	Total organic carbon	707	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	7.60	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.68E-08±1.37E-08				2.47E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.15E-09±2.34E-09	U			9.14E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.03E-09±1.73E-09	U			7.21E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	3.38E-10±1.91E-10	J	I		7.60E-11	µCi/mL	GP	RADA-010
0	Radium-226	6.72E-10±3.49E-10	J	I		3.08E-10	µCi/mL	GP	RADA-008
0	Radium-228	-7.12E-11±4.98E-10	U			1.10E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.80E-10±3.22E-10	U			6.90E-10	µCi/mL	GP	RADA-004
0	Tritium	4.08E-06±5.61E-07				6.35E-07	µCi/mL	ML	RADA-002
0	Tritium	3.20E-06±5.21E-07				6.30E-07	µCi/mL	ML	RADA-002

B-67

Second Quarter 2001



## WELL BSW 6D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 32.44 ft (9.89 m) below TOC  
 Water elevation: 212.16 ft (64.67 m) msl  
 pH: 5.5  
 Sp. conductance: 86 µS/cm  
 Turbidity: 261 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:16  
 Water temperature: 22.2°C  
 Air temperature: 30.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 32 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	12.2				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	234				1.80	µg/L	WA	EPA6010B
1	Benzene	3.84	J	I		5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	32.1	J			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	44.6				10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	3.19	J	I		10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.60	J			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.70	J			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	15.2				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.90	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	15.5	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.20				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.206	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	9.60	J			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	768				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	4.470				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.06	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	170,000	J	IQ		250,000	µg/L	WA	EPA160.1
0	Total organic carbon	1.820				1,000	µg/L	WA	EPA9060
2	Total organic halogens	208	J	Q	X	133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	12.0				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	5.31				5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	38.9	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.92E-08±1.43E-08	J			2.29E-08	µCi/mL	GP	RADA-003
1	Gross alpha	1.20E-08±3.88E-09	J			8.83E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	4.76E-10±1.63E-09	J			7.10E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	4.94E-10±2.33E-10	J			2.17E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.51E-09±7.69E-10	J			3.90E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.98E-09±5.87E-10	U		V	9.86E-10	µCi/mL	GP	RADA-009
0	Radium-228	1.95E-09±6.15E-10	U		V	1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.17E-10±3.76E-10	U			8.04E-10	µCi/mL	GP	RADA-004
2	Tritium	1.63E-02±2.78E-05				6.61E-07	µCi/mL	ML	RADA-002

## WELL BSW 7C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 38.13 ft (11.62 m) below TOC  
 Water elevation: 211.17 ft (64.37 m) msl  
 pH: 6.1  
 Sp. conductance: 119 µS/cm  
 Turbidity: 605 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:14  
 Water temperature: 21.5°C  
 Air temperature: 27.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 15 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	24.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	158				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<0.470	JU		4	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	1.38	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	5.10	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.40	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.01	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	13.0	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	6.90				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	13.4	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	512				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	10,400				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.54	J	I		5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<173,000	JU	Q		227,000	µg/L	WA	EPA160.1
0	Total organic carbon	777	J	IQ		1,000	µg/L	WA	EPA9060
0	Total organic halogens	13.0	J	I	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	7.10				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	42.5	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.82E-08±2.84E-08	J			4.74E-08	µCi/mL	GP	RADA-003
1	Gross alpha	9.87E-09±2.88E-09	J			6.18E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.98E-09±1.90E-09	U			7.54E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.19E-09±3.63E-10	U			2.09E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.61E-10±3.38E-10	J	I		3.42E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.01E-09±7.20E-10	J	I		1.28E-09	µCi/mL	GP	RADA-009
0	Strontium-90	5.65E-11±4.79E-10	U			1.10E-09	µCi/mL	GP	RADA-004
2	Tritium	6.51E-04±5.54E-06				6.27E-07	µCi/mL	ML	RADA-002



## WELL BSW 7C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 38.27 ft (11.66 m) below TOC  
 Water elevation: 211.03 ft (64.32 m) msl  
 pH: 6.2  
 Sp. conductance: 212 µS/cm  
 Turbidity: 318 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:06  
 Water temperature: 21.6°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 15 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	20.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	291				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.810	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	6.70	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.30	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	15.3	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	9.50				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.0900	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	21.7	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	437				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	59,600				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	520,000	J	Q		250,000	µg/L	WA	EPA160.1
0	Total organic carbon	594	J	IQ		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.86	J	I		5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	54.4				53.0	µg/L	WA	EPA6010B
0	Carbon-14	4.18E-09±2.68E-08	U			4.61E-08	µCi/mL	GP	RADA-003
1	Gross alpha	8.78E-09±2.68E-09	J	I		5.94E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.35E-09±1.89E-09	U			7.39E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	7.75E-10±2.96E-10	J	I		2.85E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.07E-09±3.68E-10				2.30E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.55E-09±6.58E-10	J	I		1.18E-09	µCi/mL	GP	RADA-009
0	Strontium-90	6.62E-11±2.91E-10	U			6.81E-10	µCi/mL	GP	RADA-004
2	Tritium	1.61E-04±2.75E-06				6.19E-07	µCi/mL	ML	RADA-002

## WELL BSW 7C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 38.61 ft (11.77 m) below TOC  
 Water elevation: 210.69 ft (64.22 m) msl  
 pH: 6.8  
 Sp. conductance: 391 µS/cm  
 Turbidity: 918 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:51  
 Water temperature: 24.7°C  
 Air temperature: 37.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 44 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	37.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	292				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.490	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	7.40				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	15.7	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	15.3				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	15.9	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	48.0				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	93,600				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	<293,000	JU	Q		333,000	µg/L	WA	EPA160.1
0	Total organic carbon	793	J	IQ		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	61.0				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-3.56E-09±2.65E-08	U			4.61E-08	µCi/mL	GP	RADA-003
1	Gross alpha	9.42E-09±2.87E-09	J	I		6.37E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.75E-09±1.90E-09	U			7.64E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.29E-09±3.69E-10	J	I		2.62E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.41E-10±4.89E-10	J	I		5.89E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.98E-10±5.58E-10	U			1.13E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.76E-10±3.11E-10	U			6.37E-10	µCi/mL	GP	RADA-004
0	Tritium	1.83E-06±4.71E-07				6.47E-07	µCi/mL	ML	RADA-002



## WELL BSW 7C4

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 40.05 ft (12.21 m) below TOC  
 Water elevation: 209.25 ft (63.78 m) msl  
 pH: 6.3  
 Sp. conductance: 110 µS/cm  
 Turbidity: 59 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:11  
 Water temperature: 19.1°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 10 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	30.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	10.3	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	139				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	14.0				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	5.10	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	10.7	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	8.00				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	16.2	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	50.0				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<1.00	JU		4	5.00	µg/L	WA	EPA6010B
0	Sulfate	14,400			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	185,000	J	IQ		250,000	µg/L	WA	EPA160.1
0	Total organic carbon	435	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	58.8				53.0	µg/L	WA	EPA6010B
0	Carbon-14	8.50E-09±1.32E-08	U			2.23E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.87E-09±3.15E-09	U			9.40E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	5.59E-09±2.92E-09	U			1.09E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.45E-09±5.04E-10	U	V		2.92E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	1.38E-09±3.99E-10	U	V		2.80E-10	µCi/mL	GP	RADA-010
0	Radium-226	8.24E-10±4.02E-10	J	I		4.50E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.47E-10±5.42E-10	U			1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.65E-10±3.97E-10	U	V		8.61E-10	µCi/mL	GP	RADA-004
0	Tritium	2.86E-07±3.93E-07	U			6.65E-07	µCi/mL	ML	RADA-002

## WELL BSW 7D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 36.7 ft (11.19 m) below TOC  
 Water elevation: 214 ft (65.23 m) msl  
 pH: 5.1  
 Sp. conductance: 60 µS/cm  
 Turbidity: 500 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:56  
 Water temperature: 21.2°C  
 Air temperature: 24.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 26 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	11.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	299				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	33.1	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	8.72	J	IL	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	11.0	J	L	O	5.00	µg/L	WA	EPA8260B
0	Chloromethane	1.96	J	IL	O	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	7.30				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	4.80	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	23.0	J	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	1.05	J	IL	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	3.18	J	IL	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	1.32	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	19.5	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	5.40				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	10.7	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	828				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	2,070				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	14.9	J	L	O	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	716,000	J	Q		200,000	µg/L	WA	EPA160.1
0	Total organic carbon	536	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	191	J	Q	X	133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	41.4	J	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	46.1	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	4.63E-08±1.48E-08	J	I		2.29E-08	µCi/mL	GP	RADA-003
0	Gross alpha	4.19E-09±2.53E-09	U			8.88E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.14E-09±1.18E-09	U			7.12E-09	µCi/mL	ML	RADA-001
2	Radium, total alpha-emitting	5.23E-09±1.12E-09	J	I		5.57E-10	µCi/mL	GP	RADA-010
0	Radium-226	5.23E-10±3.55E-10	J	I		4.92E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.40E-09±6.51E-10	J	IK	C	1.12E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-4.95E-11±4.07E-10	R	L	I	9.48E-10	µCi/mL	GP	RADA-004
2	Tritium	5.96E-03±1.67E-05				6.54E-07	µCi/mL	ML	RADA-002



## WELL BSW 7D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 37.22 ft (11.34 m) below TOC  
 Water elevation: 213.48 ft (65.07 m) msl  
 pH: 5.2  
 Sp. conductance: 39 µS/cm  
 Turbidity: 28 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:17  
 Water temperature: 19.8°C  
 Air temperature: 24.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<4.50	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.30				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.45	J	IL	O	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	5.02	J	IL	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	2.98	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Chloroform	3.02	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.40	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	10.5	J	L	O	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	10.4	J	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.76	J	IL	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.89	J	IL	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	0.985	J	IL	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.30	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	5.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,320				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	1,270				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	9.53	J	L	O	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	9.71	J	L	O	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

Well BSW 7D3 collected on 06/05/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total dissolved solids	52,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	410	J	I		1,000	µg/L	WA	EPA9060
1	Total organic halogens	98.3	J	IQ	X	133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	22.6	J	L	IO	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	22.8	J	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	6.40	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.84E-08±1.43E-08	J	I		2.30E-08	µCi/mL	GP	RADA-003
0	Gross alpha	5.70E-09±2.65E-09	U			7.87E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-8.46E-10±1.21E-09	U			6.71E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	7.73E-10±4.66E-10	J	I		6.49E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.11E-10±3.83E-10	J	I		4.71E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.03E-09±7.83E-10	J	IK	C	1.45E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.35E-10±3.79E-10	R	L	I	9.18E-10	µCi/mL	GP	RADA-004
2	Tritium	3.49E-03±1.28E-05				6.50E-07	µCi/mL	ML	RADA-002

## WELL BSW 8C1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 19.74 ft (6.02 m) below TOC  
 Water elevation: 214.26 ft (65.31 m) msl  
 pH: 5.9  
 Sp. conductance: 110 µS/cm  
 Turbidity: 288 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:25  
 Water temperature: 29.7°C  
 Air temperature: 38.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	20.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	127				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	1.87	J	I	X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	26.2	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.20	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.60	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.74	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<4.44	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	8.40	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	5.30				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.334	J	I		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	48.1				26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,210				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	7,560				340	µg/L	WA	EPA9056



Well BSW 8C1 collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	6.40			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	217,000	J	Q		76,900	µg/L	WA	EPA160.1
0	Total organic carbon	746	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	215			X	150	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	61.8			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	27.1	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.07E-07±1.76E-08				2.47E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.52E-08±7.19E-09	JU	L	C	2.30E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	6.60E-09±4.19E-09	U			1.57E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.39E-09±4.63E-10				3.13E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.72E-10±4.51E-10	J	I		5.11E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.06E-09±7.14E-10	J	IK	C	1.28E-09	µCi/mL	GP	RADA-009
0	Strontium-90	7.64E-11±4.33E-10	R	L	I	9.82E-10	µCi/mL	GP	RADA-004
0	Strontium-90	-2.76E-10±2.97E-10	R	L	I	7.46E-10	µCi/mL	GP	RADA-004
2	Tritium	2.16E-02±3.17E-05	J	K	I	6.16E-07	µCi/mL	ML	RADA-002

## WELL BSW 8C2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/30/01  
 Depth to water: 19.85 ft (6.05 m) below TOC  
 Water elevation: 214.15 ft (65.27 m) msl  
 pH: 5.5  
 Sp. conductance: 52 µS/cm  
 Turbidity: 350 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:36  
 Water temperature: 19.9°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	12.5				6,700	mg/L	WA	EPA310.1
0	Alkalinity (as CaCO <sub>3</sub> )	12.2				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	132				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	2.35	J	I		5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.70	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	3.50	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	6.20	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	3.90				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	6.50	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	728				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.810	JU		4	5.00	µg/L	WA	EPA6010B

ESH-EMS-20010585

Well BSW 8C2 collected on 05/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	3,280				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	289,000				76,900	µg/L	WA	EPA160.1
0	Total organic carbon	142	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.71	J	I	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	28.7	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	5.95E-09±1.37E-08	U			2.33E-08	µCi/mL	GP	RADA-003
1	Gross alpha	9.48E-09±1.98E-09				3.80E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.17E-09±1.21E-09	U			5.04E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	5.93E-10±2.64E-10	U	V		2.70E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.71E-10±3.09E-10	J	I		3.90E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.41E-10±5.49E-10	U			1.08E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-6.09E-12±1.75E-09	U			3.01E-09	µCi/mL	GP	RADA-004
0	Strontium-90	-6.23E-10±1.39E-09	U			2.43E-09	µCi/mL	GP	RADA-004
2	Tritium	6.68E-04±5.71E-06				6.71E-07	µCi/mL	ML	RADA-002

## WELL BSW 8C3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/30/01  
 Depth to water: 20.16 ft (6.14 m) below TOC  
 Water elevation: 213.84 ft (65.18 m) msl  
 pH: 5.9  
 Sp. conductance: 99 µS/cm  
 Turbidity: 1000 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 11:29  
 Water temperature: 20.7°C  
 Air temperature: 31.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 23 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	30.0				6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	6.80	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	484				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	33.6	J	I		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	20.8				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	8.00	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	27.9	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	12.2				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	20.5	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	110				20.0	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	108				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B

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Second Quarter 2001



Well BSW 8C3 collected on 05/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, total recoverable	<5.00		U		5.00	µg/L	WA	EPA6010B
0	Sulfate	8,980				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0		U		70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	1,150,000				167,000	µg/L	WA	EPA160.1
0	Total organic carbon	220	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120		U	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	82.8				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.24E-08±1.30E-08	U			2.33E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.25E-09±1.25E-09	U			3.54E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	8.19E-10±1.26E-09	U			4.87E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	1.51E-09±4.10E-10	U	V		3.14E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.71E-09±5.55E-10				3.98E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.05E-09±5.98E-10	J	I		9.99E-10	µCi/mL	GP	RADA-009
0	Strontium-90	2.52E-10±3.06E-10	U	V		6.49E-10	µCi/mL	GP	RADA-004
0	Tritium	9.14E-07±4.45E-07	J	I		6.91E-07	µCi/mL	ML	RADA-002

## WELL BSW 8C4

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/30/01  
 Depth to water: 20.75 ft (6.32 m) below TOC  
 Water elevation: 213.35 ft (65.03 m) msl  
 pH: 6.7  
 Sp. conductance: 187 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	55.0				6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0		U		27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	13.8	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	502				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	50.5		J	I	266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<0.470		JU	4	4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	13.1				7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	8.40	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2		U	X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00		U	X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
1	Lead, total recoverable	43.4	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	21.0				2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700		U		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	26.4				26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	232				20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0		U		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0		U		66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00		U		5.00	µg/L	WA	EPA6010B

ESH-EMS-20010585

Well BSW 8C4 collected on 05/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	19,800			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	7.00	J	I		70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	1,800,000				250,000	µg/L	WA	EPA160.1
0	Total organic carbon	181	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120		U	X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	111				53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.55E-09±1.34E-08	U			2.33E-08	µCi/mL	GP	RADA-003
1	Gross alpha	7.99E-09±1.93E-09				4.12E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	9.15E-10±1.38E-09	U			5.24E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	7.11E-10±2.81E-10	U	V		2.12E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.72E-10±2.92E-10	U			4.01E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.41E-09±6.51E-10				1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	4.48E-11±3.00E-10	U	V		6.61E-10	µCi/mL	GP	RADA-004
0	Strontium-90	1.45E-10±2.86E-10	U	V		6.29E-10	µCi/mL	GP	RADA-004
0	Tritium	5.63E-07±4.35E-07	U			7.09E-07	µCi/mL	ML	RADA-002

## WELL BSW 8D1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/30/01  
 Depth to water: 17.77 ft (5.42 m) below TOC  
 Water elevation: 215.73 ft (65.76 m) msl  
 pH: 5.7  
 Sp. conductance: 32 µS/cm  
 Turbidity: 334 NTU  
 No water was evacuated from the well prior to sampling.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	6.50	J	I		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0		U		27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	45.6				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266		U		266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70		U		4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0		U	X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	4.80	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	2.40	J	I		15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00		U	X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00		U	X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.40	J	I		47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.60	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700		U		0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	3.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,240				40.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.580	JU		4	5.00	µg/L	WA	EPA6010B

B-73

Second Quarter 2001



Well BSW 8D1 collected on 05/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	819				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	114,000				100,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	20.2	J	I		53.0	µg/L	WA	EPA6010B
0	Carbon-14	2.63E-09±1.36E-08	U			2.33E-08	µCi/mL	GP	RADA-003
0	Gross alpha	2.90E-10±7.35E-10	U			3.38E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-3.89E-10±1.12E-09	U			4.76E-09	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	8.00E-12±9.00E-11	U	V		2.70E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.47E-09±4.65E-10				3.26E-10	µCi/mL	GP	RADA-008
0	Radium-226	1.58E-09±5.07E-10				3.59E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.48E-10±6.17E-10	U			1.23E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.00E-10±2.47E-10	U	V		5.16E-10	µCi/mL	GP	RADA-004
1	Tritium	1.41E-05±9.16E-07				6.75E-07	µCi/mL	ML	RADA-002

## WELL BSW 8D2

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 17.72 ft (5.4 m) below TOC  
 Water elevation: 215.78 ft (65.77 m) msl  
 pH: 4.7  
 Sp. conductance: 88 µS/cm  
 Turbidity: 21 NTU  
 Water evacuated from the well prior to sampling: 5 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	26.9				1.80	µg/L	WA	EPA6010B
1	Benzene	2.73	J	I	X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
1	Chloroethene (Vinyl chloride)	1.85	J	I	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	7.70				5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.30	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.59	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.14	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.810	J	I		2.70	µg/L	WA	EPA6010B
1	Mercury, total recoverable	1.12				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	9.90	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.610				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	392				340	µg/L	WA	EPA9056

ESH-EMS-20010585

Well BSW 8D2 collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	7.42			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	92,000	J			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	785	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	279	J	Q		133	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	122			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	4.50E-07±2.55E-08				2.47E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.74E-09±3.71E-09	JU	L	C	1.67E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	4.75E-09±3.35E-09	U			1.35E-08	µCi/mL	ML	RADA-001
1	Radium, total alpha-emitting	2.73E-09±6.28E-10				3.82E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.07E-09±6.26E-10				2.98E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.54E-09±7.38E-10	J	IK	C	1.41E-09	µCi/mL	GP	RADA-009
0	Strontium-90	5.40E-11±3.25E-10	R	L	I	7.39E-10	µCi/mL	GP	RADA-004
2	Tritium	5.40E-02±4.97E-05	J	K	I	6.07E-07	µCi/mL	ML	RADA-002

## WELL BSW 8D2 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 17.72 ft (5.4 m) below TOC  
 Water elevation: 215.78 ft (65.77 m) msl  
 pH: 4.7  
 Sp. conductance: 88 µS/cm  
 Turbidity: 21 NTU  
 Water evacuated from the well prior to sampling: 5 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	6.05E-07±2.85E-08				2.49E-08	µCi/mL	GP	RADA-003
0	Carbon-14	3.96E-07±2.42E-08				2.40E-08	µCi/mL	GP	RADA-003
1	Radium, total alpha-emitting	3.79E-09±9.60E-10				7.11E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.08E-09±5.25E-10				2.46E-10	µCi/mL	GP	RADA-008
1	Radium-228	2.50E-09±7.01E-10	J	IK	C	1.20E-09	µCi/mL	GP	RADA-009
0	Strontium-90	3.85E-11±3.85E-10	R	L	I	8.77E-10	µCi/mL	GP	RADA-004

## WELL BSW 8D3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 17.72 ft (5.4 m) below TOC  
 Water elevation: 215.68 ft (65.74 m) msl  
 pH: 4.9  
 Sp. conductance: 92 µS/cm  
 Turbidity: 15 NTU  
 No water was evacuated from the well prior to sampling.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<1.00	U	V		6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	21.0				1.80	µg/L	WA	EPA6010B
2	Benzene	6.74			X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	2.77	J	I	X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	14.8			X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.40	J	I		7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B

B-74

Second Quarter 2001



Well BSW 8D3 collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	3.25	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	J		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.66	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<4.53	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	1.10	J	I		2.70	µg/L	WA	EPA6010B
2	Mercury, total recoverable	5.39				0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	6.20	J	I		26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	3,300				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	516				340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	11.3			X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	90,000	J	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	634	J	I		1,000	µg/L	WA	EPA9060
2	Total organic halogens	338	J	Q	X	240	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	141			X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
1	Carbon-14	1.11E-06±3.61E-08				2.47E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.20E-08±5.14E-09	JU	L	C	1.56E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-4.42E-09±1.87E-09	U			1.30E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.01E-09±5.63E-10				3.61E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.05E-09±3.99E-10	J			3.83E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.28E-09±7.66E-10	J	IK	C	1.33E-09	µCi/mL	GP	RADA-009
0	Strontium-90	1.98E-10±3.69E-10	R	L	I	8.07E-10	µCi/mL	GP	RADA-004
2	Tritium	5.88E-02±5.20E-05	J	K	I	6.11E-07	µCi/mL	ML	RADA-002

**WELL CMP 12A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/01/01  
 Depth to water: 103.2 ft (31.46 m) below TOC  
 Water elevation: 180.9 ft (55.14 m) msl  
 pH: 7  
 Sp. conductance: 170 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 229 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

ESH-EMS-20010585

Well CMP 12A collected on 05/01/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	0.690	J	IL	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	0.680	J	IL	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL DBP 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 19.58 ft (5.97 m) below TOC  
 Water elevation: 115.62 ft (35.24 m) msl  
 pH: 5  
 Sp. conductance: 55 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 71 gal

Time: 10:44  
 Water temperature: 20.4°C  
 Air temperature: 30.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzo(a)anthracene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chrysene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Endrin	<0.0396	U			0.0396	µg/L	GE	EPA8081A
0	Manganese, total recoverable	20.7				10.0	µg/L	GE	EPA6010B
0	Octachlorodibenzo-p-dioxin	<0.0100	U			0.0100	µg/L	GE	EPA8280
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Radium, total alpha-emitting	3.08E-10±1.53E-10	J	I		2.20E-10	µCi/mL	GP	RADA-010
0	Tritium	6.50E-07±5.49E-07	U			9.11E-07	µCi/mL	GP	RADA-002

**WELL DBP 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 13.86 ft (4.22 m) below TOC  
 Water elevation: 112.44 ft (34.27 m) msl  
 pH: 4.7  
 Sp. conductance: 140 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 57 gal

Time: 12:31  
 Water temperature: 21°C  
 Air temperature: 33°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzo(a)anthracene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chrysene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B

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Well DBP 2 collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Endrin	<0.0400	U			0.0400	µg/L	GE	EPA8081A
2	Manganese, total recoverable	254				10.0	µg/L	GE	EPA6010B
0	Octachlorodibenzo-p-dioxin	<0.0100	U			0.0100	µg/L	GE	EPA8280
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Radium, total alpha-emitting	1.30E-09±2.67E-10				1.80E-10	µCi/mL	GP	RADA-010
0	Tritium	1.25E-06±5.72E-07	J	I		9.15E-07	µCi/mL	GP	RADA-002

**WELL DBP 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 11.6 ft (3.54 m) below TOC  
 Water elevation: 116.7 ft (35.57 m) msl  
 pH: 5.6  
 Sp. conductance: 64 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 71 gal

Time: 9:27  
 Water temperature: 19°C  
 Air temperature: 30.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzo(a)anthracene	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Chromium, total recoverable	1.48	J	I		5.00	µg/L	GE	EPA6010B
0	Chrysene	<0.990	U			0.990	µg/L	GE	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	1.74	J	I		5.00	µg/L	GE	EPA8260B
0	Endrin	<0.0400	U			0.0400	µg/L	GE	EPA8081A
0	Manganese, total recoverable	11.0				10.0	µg/L	GE	EPA6010B
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Radium, total alpha-emitting	4.24E-10±2.55E-10		V		1.06E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	5.14E-10±4.11E-10		V		2.32E-10	µCi/mL	GP	RADA-010
0	Tritium	3.42E-07±5.38E-07	U			9.11E-07	µCi/mL	GP	RADA-002

**WELL DBP 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 11.78 ft (3.59 m) below TOC  
 Water elevation: 114.42 ft (34.88 m) msl  
 pH: 4.8  
 Sp. conductance: 89 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 70 gal

Time: 14:04  
 Water temperature: 20°C  
 Air temperature: 35.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Octachlorodibenzo-p-dioxin	<1.60	U			1.60	ng/L	WA	EPA8280A
0	Octachlorodibenzo-p-dioxin	<1.60	U			1.60	ng/L	WA	EPA8280A
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzo(a)anthracene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)anthracene	<10.2	U			10.2	µg/L	WA	EPA8270C
0	Benzo(b)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<10.2	U			10.2	µg/L	WA	EPA8270C
0	Benzo(k)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<10.2	U			10.2	µg/L	WA	EPA8270C
0	Benzo(a)pyrene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<10.2	U			10.2	µg/L	WA	EPA8270C
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<0.700	JU		4	7.00	µg/L	WA	EPA6010B
0	Chrysene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chrysene	<10.2	U			10.2	µg/L	WA	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well DBP 4 collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Endrin	<0.0396	U			0.0396	µg/L	GE	EPA8081A
0	Endrin	<0.102	U			0.102	µg/L	WA	EPA8081A
0	Endrin	<0.102	U			0.102	µg/L	WA	EPA8081A
2	Manganese, total recoverable	400				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	399				7.80	µg/L	WA	EPA6010B
0	Octachlorodibenzo-p-dioxin	<0.0100	U			0.0100	µg/L	GE	EPA8280
0	Octachlorodibenzo-p-dioxin	<0.0100	U			0.0100	µg/L	GE	EPA8280
0	PCB 1254	<1.02	U			1.02	µg/L	WA	EPA8082
0	PCB 1254	<1.02	U			1.02	µg/L	WA	EPA8082
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	PCB 1260	<1.02	U			1.02	µg/L	WA	EPA8082
0	PCB 1260	<1.02	U			1.02	µg/L	WA	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Radium, total alpha-emitting	8.33E-10±2.30E-10				1.97E-10	µCi/mL	GP	RADA-010
0	Tritium	2.55E-07±5.42E-07	U			9.24E-07	µCi/mL	GP	RADA-002
0	Tritium	7.10E-07±3.71E-07	J	I		5.78E-07	µCi/mL	ML	RADA-002

**WELL DBP 4 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 11.78 ft (3.59 m) below TOC  
 Water elevation: 114.42 ft (34.88 m) msl  
 pH: 4.8  
 Sp. conductance: 89 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 70 gal

Time: 14:04  
 Water temperature: 20°C  
 Air temperature: 35.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzo(a)anthracene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chrysene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Endrin	<0.0400	U			0.0400	µg/L	GE	EPA8081A
2	Manganese, total recoverable	399				10.0	µg/L	GE	EPA6010B
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Radium, total alpha-emitting	7.89E-10±2.15E-10				1.85E-10	µCi/mL	GP	RADA-010
0	Tritium	3.72E-07±5.39E-07	U			9.11E-07	µCi/mL	GP	RADA-002

**WELL DBP 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 19.66 ft (5.99 m) below TOC  
 Water elevation: 114.94 ft (35.03 m) msl  
 pH: 5  
 Sp. conductance: 38 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 47 gal

Time: 11:24  
 Water temperature: 18.5°C  
 Air temperature: 30.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzo(a)anthracene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(b)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(k)fluoranthene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Benzo(a)pyrene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chrysene	<1.00	U			1.00	µg/L	GE	EPA8270C
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B

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Well DBP 5 collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Endrin	<0.0396	U			0.0396	µg/L	GE	EPA8081A
0	Manganese, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Octachlorodibenzo-p-dioxin	<0.0100	U			0.0100	µg/L	GE	EPA8280
0	PCB 1260	<0.100	U			0.100	µg/L	GE	EPA8082
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Radium, total alpha-emitting	7.73E-10±2.10E-10				1.46E-10	µCi/mL	GP	RADA-010
0	Tritium	2.02E-06±6.03E-07	J	I		9.26E-07	µCi/mL	GP	RADA-002

**WELL DOB 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 13 ft (3.96 m) below TOC  
 Water elevation: 141.1 ft (43.01 m) msl  
 pH: 5.2  
 Sp. conductance: 44 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 11:50  
 Water temperature: 20.8°C  
 Air temperature: 36°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL DOB 15**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 9.86 ft (3.01 m) below TOC  
 Water elevation: 138.84 ft (42.32 m) msl  
 pH: 4.7  
 Sp. conductance: 283 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 10:13  
 Water temperature: 18.9°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Chloroethene (Vinyl chloride)	18.2				1.00	µg/L	ML	EPA8260B
2	Chloroethene (Vinyl chloride)	15.2			X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	55.3				1.00	µg/L	ML	EPA8260B
1	cis-1,2-Dichloroethylene	50.0			X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	8.04				1.00	µg/L	ML	EPA8260B
2	Tetrachloroethylene	7.56			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	22.9				1.00	µg/L	ML	EPA8260B
2	Trichloroethylene	20.4			X	5.00	µg/L	WA	EPA8260B

**WELL DOB 15 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 9.86 ft (3.01 m) below TOC  
 Water elevation: 138.84 ft (42.32 m) msl  
 pH: 4.7  
 Sp. conductance: 283 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 10:13  
 Water temperature: 18.9°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

Well DOB 15 collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Chloroethene (Vinyl chloride)	16.3			X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	48.5			X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	7.94			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	21.2			X	5.00	µg/L	WA	EPA8260B

**WELL DOB 15A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 8.92 ft (2.72 m) below TOC  
 Water elevation: 143.78 ft (43.82 m) msl  
 pH: 4.5  
 Sp. conductance: 191 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 9 gal

Time: 14:39  
 Water temperature: 17.7°C  
 Air temperature: 33°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Chloroethene (Vinyl chloride)	31.4			X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	56.1			X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	4.44	J	I	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	13.2			X	5.00	µg/L	WA	EPA8260B

**WELL DOB 15PZ**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 15.47 ft (4.72 m) below TOC  
 Water elevation: 137.13 ft (41.8 m) msl  
 pH: 5.3  
 Sp. conductance: 54 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 31 gal

Time: 13:11  
 Water temperature: 19.4°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 19**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 6.93 ft (2.11 m) below TOC  
 Water elevation: 139.97 ft (42.66 m) msl  
 pH: 6.7  
 Sp. conductance: 185 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 14:21  
 Water temperature: 18.5°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 62 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Chloroethene (Vinyl chloride)	1.66	J	I	X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	4.70	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.71	J	I	X	5.00	µg/L	WA	EPA8260B



**WELL DOB 19A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 6.3 ft (1.92 m) below TOC  
 Water elevation: 140.3 ft (42.76 m) msl  
 pH: 6.3  
 Sp. conductance: 126 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 14:08  
 Water temperature: 17.8°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 46 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Chloroethene (Vinyl chloride)	1.12	J	I	X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	3.18	J	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.22	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL DOB 20**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 10.52 ft (3.21 m) below TOC  
 Water elevation: 139.18 ft (42.42 m) msl  
 pH: 7.7  
 Sp. conductance: 210 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 14:03  
 Water temperature: 19.7°C  
 Air temperature: 31.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 82 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 20A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 10.62 ft (3.24 m) below TOC  
 Water elevation: 138.88 ft (42.33 m) msl  
 pH: 4.9  
 Sp. conductance: 48 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 12:36  
 Water temperature: 18.6°C  
 Air temperature: 29.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 21**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 9.6 ft (2.93 m) below TOC  
 Water elevation: 139.2 ft (42.43 m) msl  
 pH: 6.9  
 Sp. conductance: 174 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 9:56  
 Water temperature: 18.3°C  
 Air temperature: 25.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 64 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 21A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 9.87 ft (3.01 m) below TOC  
 Water elevation: 139.03 ft (42.38 m) msl  
 pH: 4.9  
 Sp. conductance: 47 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 9:36  
 Water temperature: 17.6°C  
 Air temperature: 25°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 21PZ**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Depth to water: 20.68 ft (6.3 m) below TOC  
 Water elevation: 128.12 ft (39.05 m) msl  
 pH: 5.6  
 Sp. conductance: 35 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 12:42  
 Water temperature: 19.4°C  
 Air temperature: 30.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B



**WELL DOB 22**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 8.51 ft (2.59 m) below TOC  
 Water elevation: 139.29 ft (42.46 m) msl  
 pH: 6.9  
 Sp. conductance: 193 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 10:49  
 Water temperature: 18.6°C  
 Air temperature: 25.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 45 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOB 22A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 27.9 ft (8.5 m) below TOC  
 Water elevation: 119.6 ft (36.45 m) msl  
 pH: 5.1  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 10:21  
 Water temperature: 17.3°C  
 Air temperature: 24.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL DOL 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 13.65 ft (4.16 m) below TOC  
 Water elevation: 141.05 ft (42.99 m) msl  
 pH: 5  
 Sp. conductance: 70 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 9 gal

Time: 10:25  
 Water temperature: 20°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL FBI 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 77.36 ft (23.58 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 579 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 12:33  
 Water temperature: 23.6°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	11,700	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	11,700	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	202				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	1.06	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.13	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.971	JU	Q		0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	1.82	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,050				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,070				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Chloride	3,630				100	µg/L	GE	EPA9056
0	Chloride	3,670				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	LQ	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.303	J	ILQ		1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	5.05				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	52.0				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	52.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	20.4				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	20.7				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	LQ	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,810				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,830				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	27.7				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	28.5				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	61,500				1,250	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	61,700	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	62,200	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	2,450				200	µg/L	GE	EPA9056
0	Sulfate	2,460				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	50.0	J	L	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B



Well FBI 1D collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<1.00	JU	LQ	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	29.9	J	LQ	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	2.49	J	LQ	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	30.3				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	30.9				5.00	µg/L	GE	EPA6010B
0	Actinium-228	9.54E-09±1.11E-08	U			1.79E-08	µCi/mL	GP	RADA-013
2	Americium-241	9.06E-09±4.34E-09	J	I		2.75E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-1.06E-09±5.01E-09	U			8.42E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	8.94E-09±1.26E-08	U			2.48E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	5.71E-09±6.77E-09	U			6.71E-09	µCi/mL	GP	RADA-013
0	Carbon-14	2.54E-08±2.81E-08	U			4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.77E-10±1.82E-09	U			3.22E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.89E-09±3.52E-09	J	I		3.14E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.95E-09±2.06E-09	U			4.29E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.15E-10±2.30E-10	U			2.52E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	8.74E-09±4.22E-09	J	I		2.33E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.03E-09±1.46E-09	U			1.54E-09	µCi/mL	GP	RADA-011
0	Europium-152	-1.24E-09±5.01E-09	U			8.50E-09	µCi/mL	GP	RADA-013
0	Europium-154	9.35E-10±6.05E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Europium-155	8.80E-09±7.41E-09	U			1.39E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.53E-07±3.50E-08			5	7.60E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	5.95E-07±3.71E-08			5	6.36E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	3.77E-08±5.54E-09				1.76E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.71E-09±5.59E-09	U			7.08E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	5.10E-07±2.30E-08				8.12E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	5.38E-07±2.36E-08				7.76E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.17E-12±1.21E-10	U			4.11E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	0.00E+00±2.00E-09	U	V		1.17E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.36E-08±2.88E-08	J	I		2.93E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.29E-10±2.58E-09	U			4.50E-09	µCi/mL	GP	RADA-013
2	Radium-226	8.94E-09±1.28E-09				4.97E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.33E-08±1.15E-09				9.89E-10	µCi/mL	GP	RADA-009
2	Strontium-90	8.97E-08±3.34E-09	J	K	I	9.69E-10	µCi/mL	GP	RADA-004
0	Technetium-99	5.39E-08±1.34E-08				2.22E-08	µCi/mL	GP	RADA-005
0	Thallium-208	6.98E-10±3.46E-09	U			3.90E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.85E-10±1.04E-10	J	I		1.36E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.44E-11±7.21E-11	U			1.34E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-4.44E-12±3.06E-11	U			8.79E-11	µCi/mL	GP	RADA-012
2	Tritium	2.20E-03±4.32E-05				4.73E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.35E-07±2.84E-08				6.11E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.14E-08±3.25E-09				3.48E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.78E-07±5.74E-08				8.04E-10	µCi/mL	GP	RADA-011

## WELL FBI 1D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 77.27 ft (23.55 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 651 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 10:23  
 Water temperature: 21.2°C  
 Air temperature: 25.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	11,600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	197				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.09	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.51	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	4,020				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.46	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	51.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	20.2				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	420				50.0	µg/L	GE	EPA6010B

Well FBI 1D collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,650				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	960				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	25.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	61,000				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	513				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	72,200				100	µg/L	GE	EPA6010B
0	Sulfate	2,630				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	30.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.49E-08±1.38E-08	U			1.79E-08	µCi/mL	GP	RADA-013
2	Americium-241	8.47E-09±1.30E-09				1.57E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.97E-10±1.84E-09	U			2.80E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.21E-10±5.78E-09	U			9.95E-09	µCi/mL	GP	RADA-013
0	Barium-133	2.57E-09±2.94E-09	U			4.65E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.57E-08±7.99E-09	R		4	9.92E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.94E-08±1.46E-08	J	I		2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.38E-09±2.48E-09	U			3.47E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.52E-09±6.28E-09	U			3.72E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.27E-09±1.99E-09	U			3.83E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.68E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	8.01E-09±1.26E-09				1.57E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	9.10E-10±4.61E-10	J	I		1.82E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.26E-09±6.16E-09	U			1.05E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.65E-09±5.70E-09	U			1.15E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.63E-09±8.05E-09	U			1.34E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.97E-07±1.58E-08			5	2.72E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	3.50E-08±6.32E-09				3.23E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.49E-08±4.34E-09	R		4	7.70E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.67E-09±7.35E-09	U			8.04E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.64E-11±4.15E-11	U			9.04E-11	µCi/mL	GP	RADA-032
2	Nonvolatile beta	3.98E-07±6.87E-09				3.60E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.13E-10±1.94E-10	U			4.25E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.41E-10±1.47E-10	U			2.28E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	2.30E-10±1.70E-10	J	I		9.86E-11	µCi/mL	GP	RADA-011
0	Potassium-40	4.10E-08±2.48E-08	U			4.96E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-4.26E-10±2.86E-09	U			4.89E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.04E-08±1.64E-09				2.81E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.03E-09±9.83E-10				5.46E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.33E-08±1.33E-09				1.38E-09	µCi/mL	GP	RADA-009
2	Strontium-90	7.96E-08±2.55E-09	J	L	I	8.24E-10	µCi/mL	GP	RADA-004
0	Technetium-99	5.21E-08±1.23E-08				2.00E-08	µCi/mL	GP	RADA-005
0	Thallium-208	9.13E-10±3.88E-09	U			3.65E-09	µCi/mL	GP	RADA-013
0	Thorium-228	9.32E-11±1.47E-10	U			3.02E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.66E-10±1.16E-10	U			1.92E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.66E-10±1.16E-10	U			1.92E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.51E-10±9.05E-11	J	I		9.64E-11	µCi/mL	GP	RADA-012
0	Thorium-230	9.73E-11±1.15E-10	U			2.06E-10	µCi/mL	GP	RADA-012
0	Thorium-230	9.73E-11±1.15E-10	U			2.06E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.01E-11±5.78E-11	U			9.64E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-3.72E-11±1.06E-10	U			2.32E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-3.72E-11±1.06E-10	U			2.32E-10	µCi/mL	GP	RADA-012
2	Tritium	2.15E-03±6.89E-06			5	3.90E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.40E-07±9.67E-09				2.31E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.41E-08±3.07E-09				9.99E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.65E-07±1.32E-08				1.19E-09	µCi/mL	GP	RADA-011



## WELL FBI 1D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 76.96 ft (23.46 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 602 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 14:11  
 Water temperature: 21.8°C  
 Air temperature: 33.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	10,200				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	184				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.902	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.45	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,300				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	9.49				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	46.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	182				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	321				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	149				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,530				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	850				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	29.2				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	57,300				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	57,700				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	378				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	67,000				100	µg/L	GE	EPA6010B
0	Sulfate	2,680				200	µg/L	GE	EPA300.0
0	Sulfate	2,660				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	70.6				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.45E-08±1.73E-08	U			1.56E-08	µCi/mL	GP	RADA-013
2	Americium-241	9.83E-09±1.43E-09				1.03E-09	µCi/mL	GP	RADA-011
0	Americium-243	2.13E-09±3.90E-09	U			1.02E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-3.77E-09±4.82E-09	U			8.20E-09	µCi/mL	GP	RADA-013
0	Barium-133	9.83E-11±2.89E-09	U			4.32E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.22E-08±9.63E-09	U			5.69E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.95E-08±1.51E-08	U			2.51E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.05E-09±1.89E-09	U			2.77E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.77E-09±3.01E-09	U			3.15E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.20E-10±1.84E-09	U			3.45E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.56E-10±2.48E-10	U			6.56E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	8.10E-09±1.37E-09				1.29E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	7.03E-10±4.62E-10	J	I		5.98E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.89E-09±5.65E-09	U			9.84E-09	µCi/mL	GP	RADA-013
0	Europium-154	7.92E-09±5.33E-09	U			1.15E-08	µCi/mL	GP	RADA-013
0	Europium-155	8.16E-09±1.02E-08	U			1.25E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.06E-07±1.08E-07				5.77E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	3.11E-08±6.20E-09				3.09E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.68E-09±5.03E-09	U			5.82E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.83E-08±1.04E-08				6.72E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	6.40E-11±1.33E-10	U			2.45E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	2.74E-11±1.84E-10	U			4.94E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	2.74E-11±1.84E-10	U			4.94E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	3.85E-07±7.39E-08				1.34E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.03E-11±5.37E-11	U			1.41E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.33E-11±7.39E-11	U			8.00E-11	µCi/mL	GP	RADA-011
0	Potassium-40	8.98E-08±2.47E-08	U			4.13E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.64E-10±2.21E-09	U			4.00E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.95E-08±2.15E-09				6.43E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.28E-08±1.63E-09				7.25E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.14E-08±1.15E-09	J	K	C	1.19E-09	µCi/mL	GP	EPA904.0Modif
2	Radium-228	1.32E-08±1.25E-09	J	K	C	1.11E-09	µCi/mL	GP	EPA904.0Modif
2	Radium-228	1.32E-08±1.25E-09	J	K	C	1.11E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.35E-07±4.93E-09			5	9.44E-10	µCi/mL	GP	RADA-004
2	Strontium-90	1.92E-07±4.55E-09			5	9.79E-10	µCi/mL	GP	RADA-004

ESH-EMS-20010585

Well FBI 1D collected on 06/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Technetium-99	9.55E-08±1.57E-08				2.19E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.53E-09±3.23E-09	U			4.12E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.92E-11±1.14E-10	U			2.21E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.07E-11±6.35E-11	U			9.25E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-4.74E-12±3.02E-11	U			9.25E-11	µCi/mL	GP	RADA-012
2	Tritium	1.91E-03±4.95E-05			5	2.47E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.39E-07±8.50E-09				1.18E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.32E-08±2.66E-09				1.18E-09	µCi/mL	GP	RADA-011
2	Uranium-238	2.96E-07±1.24E-08				4.06E-10	µCi/mL	GP	RADA-011

## WELL FBI 1D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 28.03 ft (8.54 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 503 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 11:31  
 Water temperature: 22.6°C  
 Air temperature: 33.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	8,220				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	153				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.828	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.20	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,350				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.64	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	43.1				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	15.2				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	176				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,510				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	815				10.0	µg/L	GE	EPA6010B
1	Mercury, total recoverable	1.73				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	21.5				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	49,800				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	308				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	58,700				100	µg/L	GE	EPA6010B
0	Sulfate	9,420				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<40.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	23.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	5.67E-09±2.15E-08	U			2.38E-08	µCi/mL	GP	RADA-013
2	Americium-241	8.17E-09±1.45E-09				4.64E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.20E-09±2.14E-09	U			2.38E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-4.90E-09±7.55E-09	U			1.21E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.82E-09±4.27E-09	U			6.19E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	9.61E-09±1.21E-08	U			1.38E-08	µCi/mL	GP	RADA-013
0	Carbon-14	5.08E-08±1.50E-08	J	I		2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	5.23E-10±2.99E-09	U			4.85E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.88E-09±3.07E-09	U			6.06E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.50E-09±4.06E-09	U			6.22E-09	µCi/mL	GP	RADA-013
0	Curium-242	5.66E-11±1.21E-10	U			3.93E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	5.62E-09±1.20E-09				2.01E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.88E-10±3.40E-10	J	I		2.33E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.82E-09±8.86E-09	U			1.39E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.05E-09±9.16E-09	U			1.79E-08	µCi/mL	GP	RADA-013
0	Europium-155	6.87E-09±1.15E-08	U			1.57E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.94E-07±8.79E-08				9.47E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	3.33E-08±4.84E-09				1.82E-09	µCi/mL	GP	RADA-006
0	Lead-212	8.09E-09±5.31E-09	U	V		9.62E-09	µCi/mL	GP	RADA-013
0	Lead-214	8.04E-09±1.16E-08	U			1.03E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-4.49E-11±1.34E-10	U			4.11E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.72E-07±8.74E-08	J	I		1.53E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.44E-12±7.79E-11	U			2.71E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.88E-11±1.51E-10	U			3.79E-10	µCi/mL	GP	RADA-011

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Well FBI 1D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Potassium-40	6.50E-08±4.03E-08	U			8.47E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.47E-09±3.62E-09	U			6.50E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.52E-08±1.46E-09				4.09E-10	µCi/mL	GP	RADA-010
2	Radium-226	8.53E-09±1.18E-09				4.90E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.19E-08±9.42E-10				9.48E-10	µCi/mL	GP	RADA-009
2	Strontium-90	6.00E-08±2.34E-09			5	7.47E-10	µCi/mL	GP	RADA-004
0	Technetium-99	5.13E-08±1.16E-08				1.84E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.33E-09±3.26E-09	U			6.35E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.61E-10±1.73E-10	U			2.66E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.47E-11±9.90E-11	U			1.86E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-1.18E-11±1.63E-11	U			1.53E-10	µCi/mL	GP	RADA-012
2	Tritium	1.69E-03±3.25E-05			5	2.41E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.18E-07±7.01E-09				8.22E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.19E-08±2.24E-09				7.58E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.34E-07±9.88E-09				5.74E-10	µCi/mL	GP	RADA-011

## WELL FBI 2D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 76.29 ft (23.25 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 397 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 15:24  
 Water temperature: 24.1°C  
 Air temperature: 36°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12,800	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	12,200	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	262				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	1.88	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.82	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.971	JU	Q		0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Cadmium, total recoverable	3.36	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	20,000				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	20,300				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	609				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	7.03				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	84.2				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	82.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	22.4				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	22.7				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	9.50				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,390				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,340				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	30.5				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	30.1				5.00	µg/L	GE	EPA6010B

ESH-EMS-20010585

Well FBI 2D collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nitrate-nitrite as nitrogen	50,300				1,250	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	27,700	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	27,400	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	5,120				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	0.230	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	90.0	J	L	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	2.31	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	69.3				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	70.9				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.66E-09±9.10E-09	U			1.08E-08	µCi/mL	GP	RADA-013
1	Americium-241	5.58E-09±2.62E-09	J	I		8.38E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-7.98E-10±2.97E-09	U			4.95E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	4.07E-09±1.11E-08				2.02E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	7.76E-09±4.44E-09	R		4	6.01E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.25E-08±2.87E-08	U			4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.98E-10±1.18E-09	U			1.90E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.29E-10±1.33E-09	U			2.44E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.95E-09±1.54E-09	R		4	2.92E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			9.06E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	4.75E-09±2.40E-09	J	I		8.39E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.62E-09±1.47E-09	J	I		9.72E-10	µCi/mL	GP	RADA-011
0	Europium-152	-4.24E-10±3.58E-09	U			5.26E-09	µCi/mL	GP	RADA-013
0	Europium-154	4.83E-10±3.74E-09	U			6.85E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.51E-09±3.19E-09	U			5.40E-09	µCi/mL	GP	RADA-013
2	Gross alpha	3.02E-07±2.46E-08			5	6.76E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	2.77E-08±4.13E-09				1.54E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.36E-09±2.76E-09	U			3.80E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	4.78E-07±2.20E-08				7.99E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.76E-11±2.58E-10	U			6.77E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.49E-10±1.73E-10	U	V		2.64E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.99E-08±2.09E-08	U			2.64E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.41E-09±1.49E-09	R		4	2.83E-09	µCi/mL	GP	RADA-013
2	Radium-226	1.39E-08±1.65E-09				6.86E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.85E-09±1.00E-09				1.16E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.18E-07±3.69E-09	J	K	I	7.43E-10	µCi/mL	GP	RADA-004
0	Technetium-99	4.77E-08±1.36E-08	J	I		2.35E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.91E-09±1.38E-09	U			2.69E-09	µCi/mL	GP	RADA-013
0	Thorium-228	9.73E-11±1.14E-10	U			2.08E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.76E-11±7.20E-11	U			1.30E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-9.97E-12±3.64E-11	U			1.07E-10	µCi/mL	GP	RADA-012
2	Tritium	1.75E-03±3.44E-05				4.13E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.24E-07±2.46E-08				6.93E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.38E-08±3.52E-09				3.00E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.14E-07±4.15E-08				2.99E-10	µCi/mL	GP	RADA-011

## WELL FBI 2D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 76.37 ft (23.28 m) below TOC  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 573 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 12:26  
 Water temperature: 23.7°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	16,300				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	241				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.61	J	I		5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FBI 2D collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Cadmium, total recoverable	3.07	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,740				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	19.6				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	84.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	46.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,360				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	58.1				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,230				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,670				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.127	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	34.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	58,100				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	57,500				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	204				50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	210				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	840				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	30,700				100	µg/L	GE	EPA6010B
0	Sulfate	4,000				200	µg/L	GE	EPA300.0
0	Sulfate	3,980				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	90.0				50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	90.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	53.5				5.00	µg/L	GE	EPA6010B
0	Actinium-228	7.20E-09±1.77E-08	U			2.14E-08	µCi/mL	GP	RADA-013
2	Americium-241	7.48E-09±6.50E-10				2.30E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.32E-10±9.64E-10	U			1.58E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.08E-09±6.45E-09	U			1.12E-08	µCi/mL	GP	RADA-013
0	Barium-133	-4.33E-10±3.58E-09	U			5.23E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	3.53E-09±9.65E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.61E-08±1.49E-08	J	I		2.30E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-6.07E-10±2.39E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.46E-08±6.33E-09	J	I		3.92E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.13E-09±2.58E-09	U			4.46E-09	µCi/mL	GP	RADA-013
0	Curium-242	-6.86E-12±3.67E-11	U			1.34E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.01E-08±7.51E-10				2.31E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	4.65E-10±1.72E-10				4.99E-11	µCi/mL	GP	RADA-011
0	Europium-152	4.83E-09±7.55E-09	U			1.30E-08	µCi/mL	GP	RADA-013
0	Europium-154	-5.98E-09±6.74E-09	U			1.09E-08	µCi/mL	GP	RADA-013
0	Europium-155	-3.72E-09±7.44E-09	U			1.27E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.25E-07±1.30E-08			5	1.98E-09	µCi/mL	GP	EPA900.0
0	Iodine-129	3.79E-08±5.33E-09				2.55E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.04E-09±8.45E-09	U			8.83E-09	µCi/mL	GP	RADA-013
0	Lead-214	7.33E-09±1.03E-08	U			8.83E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	5.82E-11±8.44E-11	U			1.56E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	3.19E-07±6.14E-09				3.18E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	4.56E-11±1.25E-10	U			3.12E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			1.04E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	1.38E-10±1.35E-10	J	I		1.04E-10	µCi/mL	GP	RADA-011
0	Potassium-40	6.16E-08±3.09E-08				6.61E-08	µCi/mL	GP	RADA-013
0	Promethium-146	3.31E-09±3.02E-09	U			5.72E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	3.47E-08±2.08E-09				3.59E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	3.33E-08±2.01E-09				2.55E-10	µCi/mL	GP	RADA-010
1	Radium-226	4.02E-09±7.68E-10				2.76E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.28E-08±1.65E-09	J	K	C	1.85E-09	µCi/mL	GP	RADA-009
2	Radium-228	1.41E-08±8.10E-10	J	K	C	8.72E-10	µCi/mL	GP	RADA-009
2	Strontium-90	1.82E-07±3.87E-09	J	L	I	9.28E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.53E-08±1.06E-08	J	I		2.05E-08	µCi/mL	GP	RADA-005
0	Thallium-208	-4.43E-11±3.44E-09	U			5.25E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.20E-10±1.35E-10	J	I		2.12E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.70E-11±7.88E-11	U			1.59E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-2.05E-11±2.32E-11	U			1.18E-10	µCi/mL	GP	RADA-012
2	Tritium	1.55E-03±5.86E-06			5	3.91E-07	µCi/mL	GP	RADA-002
2	Tritium	1.57E-03±5.94E-06			5	4.23E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.36E-07±8.77E-09				1.36E-09	µCi/mL	GP	RADA-011
2	Uranium-233/234	1.51E-07±1.25E-08				1.69E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.38E-08±2.91E-09				2.04E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.49E-08±3.95E-09				1.44E-09	µCi/mL	GP	RADA-011
2	Uranium-238	2.18E-07±1.11E-08				1.67E-09	µCi/mL	GP	RADA-011
2	Uranium-238	2.27E-07±1.54E-08				1.43E-09	µCi/mL	GP	RADA-011

## WELL FBI 2D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 76.04 ft (23.18 m) below TOC  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 384 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 15:27  
 Water temperature: 22.1°C  
 Air temperature: 34.4°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	8,140				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	152				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.752	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.30	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	6,880				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	11.3				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	44.6				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	68.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,350				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	28.2				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,310				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,010				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	23.4				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	40,300				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	227				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	650				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	21,600				100	µg/L	GE	EPA6010B
0	Sulfate	4,630				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	45.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.12E-08±1.15E-08	U			1.39E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.59E-08±2.32E-09				6.09E-10	µCi/mL	GP	RADA-011
0	Americium-243	7.76E-10±5.30E-09	U			3.18E-09	µCi/mL	GP	RADA-011
0	Antimony-125	6.31E-10±4.80E-09	U			8.61E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.26E-10±2.58E-09	U			4.09E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.70E-08±8.64E-09				6.54E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.11E-10±1.45E-08	U			2.51E-08	µCi/mL	GP	RADA-003
0	Cesium-134	9.89E-10±1.89E-09	U			3.07E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-7.02E-10±1.81E-09	U			3.06E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.40E-10±1.73E-09	U			3.14E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			3.01E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.64E-08±2.35E-09				7.54E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.22E-09±6.90E-10	J	I		3.05E-10	µCi/mL	GP	RADA-011
0	Europium-152	-4.00E-09±5.13E-09	U			8.76E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.52E-09±5.28E-09	U			9.04E-09	µCi/mL	GP	RADA-013
0	Europium-155	4.52E-09±6.83E-09	U			1.22E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.35E-07±1.02E-07				7.83E-08	µCi/mL	GP	EPA900.0
0	Iodine-129	2.25E-08±3.82E-09				3.56E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.90E-09±5.21E-09	U			5.77E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.61E-08±9.72E-09				6.71E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	7.46E-12±7.31E-11	U			1.43E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.68E-07±6.92E-08	J	I		1.52E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-3.78E-11±3.02E-11	U			2.25E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.36E-11±5.43E-11	U			1.63E-10	µCi/mL	GP	RADA-011
0	Potassium-40	9.86E-09±3.93E-08	U			3.40E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.08E-09±2.18E-09	U			4.14E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.61E-08±1.98E-09				4.91E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.57E-09±9.92E-10				5.95E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.20E-09±1.08E-09	J	K	C	1.10E-09	µCi/mL	GP	EPA904.0NModif
2	Strontium-90	8.65E-08±2.87E-09			5	8.35E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.84E-08±1.03E-08	U			2.12E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.09E-09±1.95E-09	U			3.69E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.53E-11±1.10E-10	U			2.12E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.28E-11±5.20E-11	U			9.11E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-3.68E-12±2.34E-11	U			7.18E-11	µCi/mL	GP	RADA-012
2	Tritium	1.46E-03±3.83E-05			5	2.15E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	9.85E-08±6.43E-09				1.46E-09	µCi/mL	GP	RADA-011
1	Uranium-235	8.95E-09±2.04E-09				1.62E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.86E-07±8.81E-09				1.34E-09	µCi/mL	GP	RADA-011



## WELL FBI 2D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 37.07 ft (11.3 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 385 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 12:52  
 Water temperature: 21.4°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12.800				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	202				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.20	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.23	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,240				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.41	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	65.2				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	16.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	2.99	J	I		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	3,620				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	3.47	J	I		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,760				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,410				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	19.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	47,500				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	146				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	653				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	24,300				100	µg/L	GE	EPA6010B
0	Sulfate	4,440				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<50.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	39.6				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.10E-08±2.26E-08	U			3.12E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.22E-08±6.89E-09	J	I		3.04E-09	µCi/mL	GP	RADA-011
0	Americium-243	9.39E-10±1.82E-08	U			1.80E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-7.08E-09±9.08E-09	U			1.55E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.46E-09±5.41E-09	U			7.92E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.03E-08±1.21E-08	U			1.62E-08	µCi/mL	GP	RADA-013
0	Carbon-14	2.73E-08±2.82E-08	U			4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	4.68E-11±3.81E-09	U			6.06E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.79E-09±4.13E-09	U			7.12E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.06E-10±4.39E-09	U			8.47E-09	µCi/mL	GP	RADA-013
0	Curium-242	-2.76E-10±4.21E-10	U			6.07E-09	µCi/mL	GP	RADA-011
1	Curium-243/244	5.86E-09±4.88E-09	J	I		5.37E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.18E-09±2.31E-09	U			3.53E-09	µCi/mL	GP	RADA-011
0	Europium-152	1.84E-08±1.35E-08	U			1.87E-08	µCi/mL	GP	RADA-013
0	Europium-154	-6.85E-09±8.98E-09	U			1.50E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.48E-09±1.02E-08	U			1.84E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.12E-07±1.25E-08			5	1.43E-09	µCi/mL	GP	EPA900.0
0	Iodine-129	2.89E-08±6.99E-09	U			3.99E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.95E-09±1.83E-08	U			1.28E-08	µCi/mL	GP	RADA-013
0	Lead-214	1.92E-09±1.43E-08	U			1.30E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	2.40E-11±6.36E-11	U			1.66E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	3.31E-07±1.11E-08				3.17E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.21E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.04E-11±7.92E-11	U			1.21E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.45E-08±4.75E-08	U			1.01E-07	µCi/mL	GP	RADA-013
0	Promethium-146	-8.88E-10±4.23E-09	U			7.60E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.79E-08±1.65E-09				3.95E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.90E-08±1.86E-09	J	L	C	5.02E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.22E-08±9.51E-10				8.86E-10	µCi/mL	GP	RADA-009
2	Radium-228	1.19E-08±8.82E-10				7.90E-10	µCi/mL	GP	RADA-009
2	Strontium-90	8.52E-08±2.81E-09			5	8.39E-10	µCi/mL	GP	RADA-004
0	Techetium-99	2.33E-08±9.80E-09	J	I		1.89E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.11E-09±6.24E-09	U			7.83E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.28E-10±1.65E-10	U			3.13E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.74E-11±5.15E-11	U			1.12E-10	µCi/mL	GP	RADA-012
0	Thorium-232	9.14E-12±2.97E-11	U			8.27E-11	µCi/mL	GP	RADA-012
2	Tritium	1.51E-03±2.92E-05				2.28E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.15E-07±6.13E-09				7.51E-10	µCi/mL	GP	RADA-011

ESH-EMS-20010585

Well FBI 2D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Uranium-235	1.10E-08±1.90E-09				5.43E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.04E-07±8.15E-09				5.41E-10	µCi/mL	GP	RADA-011

## WELL FBI 3D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 76.06 ft (23.18 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 734 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 9:57  
 Water temperature: 24.2°C  
 Air temperature: 31.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	20,400	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	19,700	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	253				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
1	Beryllium, total recoverable	2.57	J	I		5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.49	J	I		5.00	µg/L	GE	EPA6010B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
1	Cadmium, total recoverable	3.42	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,910				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,720				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloride	2,760				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	13.2				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	96.0				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	93.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	32.8				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	30.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,630				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,550				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	39.6				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	38.8				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	84,500				2,500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	64,800	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	63,100	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	2,000				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	40.0	J	IL	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B

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Second Quarter 2001



Well FBI 3D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	61.2				1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	3.26				1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	50.5				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	49.2				5.00	µg/L	GE	EPA6010B
0	Actinium-228	6.14E-09±1.02E-08	U			1.68E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.05E-08±4.19E-09	J	I		2.15E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-9.80E-11±5.98E-09	U			9.12E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.08E-08±1.35E-08	U			2.71E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	1.35E-08±8.73E-09	J	I		6.67E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.45E-08±2.87E-08	U			4.69E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.01E-10±1.95E-09	U			3.20E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.95E-10±1.72E-09	U			3.31E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	5.49E-10±1.71E-09	U			3.55E-09	µCi/mL	GP	RADA-013
0	Curium-242	5.65E-10±1.09E-09	U			2.31E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.26E-08±4.65E-09	U			2.15E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	8.02E-10±1.14E-09	U			1.20E-09	µCi/mL	GP	RADA-011
0	Europium-152	4.95E-09±5.80E-09	U			1.06E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.43E-09±5.19E-09	U			9.14E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.31E-09±7.58E-09	U			1.36E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.12E-07±3.91E-08			5	5.49E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.52E-08±6.49E-09				1.88E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.43E-09±1.04E-08	R		4	7.03E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	6.83E-07±2.67E-08				6.42E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	6.52E-11±1.82E-10	U			4.46E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-4.41E-11±1.81E-10	U	V		5.20E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.43E-09±3.20E-08	U			3.45E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-7.96E-10±2.50E-09	U			4.15E-09	µCi/mL	GP	RADA-013
2	Radium-226	2.02E-08±1.81E-09				3.08E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.60E-08±1.26E-09				1.11E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.20E-07±3.57E-09	J	K	I	6.63E-10	µCi/mL	GP	RADA-004
0	Technetium-99	7.75E-08±1.45E-08				2.12E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.46E-10±3.73E-09	U			4.13E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.12E-10±1.01E-10	U			1.74E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.60E-11±5.08E-11	U			1.10E-10	µCi/mL	GP	RADA-012
0	Thorium-232	8.13E-12±2.60E-11	U			6.30E-11	µCi/mL	GP	RADA-012
2	Tritium	2.82E-03±5.53E-05				5.41E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.34E-07±5.12E-08				9.28E-10	µCi/mL	GP	RADA-011
2	Uranium-235	2.40E-08±6.27E-09				9.31E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.60E-07±7.82E-08				1.08E-09	µCi/mL	GP	RADA-011

## WELL FBI 3D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 76.11 ft (23.2 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 765 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 12:25  
 Water temperature: 24.1°C  
 Air temperature: 29.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bis(2-ethylhexyl) phthalate	<0.990	U			0.990	µg/L	GE	EPA8270C

## WELL FBI 3D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 76.1 ft (23.2 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 840 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 15:32  
 Water temperature: 23.2°C  
 Air temperature: 30.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	21,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	277				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.38	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.66	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,740				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	12.4				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	109				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	77.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	939				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	95.4				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,910				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,830				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	46.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	83,700				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	91.0				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	769				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	67,400				100	µg/L	GE	EPA6010B
0	Sulfate	1,570				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<5.13	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	62.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	5.81E-09±1.94E-08	U			2.22E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.25E-08±1.20E-09				1.87E-10	µCi/mL	GP	RADA-011
0	Americium-243	5.57E-10±1.41E-09	U			1.10E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.06E-09±6.23E-09	U			1.08E-08	µCi/mL	GP	RADA-013
0	Barium-133	8.36E-11±3.44E-09	U			5.14E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.17E-08±1.26E-08	U			1.21E-08	µCi/mL	GP	RADA-013
0	Carbon-14	3.64E-08±1.45E-08	J	I		2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.68E-10±2.81E-09	U			4.25E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.88E-10±2.71E-09	U			4.83E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.12E-10±2.88E-09	U			5.35E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			9.67E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	1.14E-08±1.14E-09				9.01E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	7.93E-10±3.28E-10	J	I		1.84E-10	µCi/mL	GP	RADA-011
0	Europium-152	-7.92E-09±7.60E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.18E-09±7.37E-09	U			1.40E-08	µCi/mL	GP	RADA-013
0	Europium-155	-1.03E-09±7.67E-09	U			1.33E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.64E-07±2.38E-08			5	2.78E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.29E-08±6.01E-09				1.96E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.54E-09±8.04E-09	U			7.03E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.45E-08±9.51E-09	J	I		8.52E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.27E-10±1.17E-10	U			1.91E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.50E-07±1.01E-08				3.61E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.71E-11±1.31E-10	U			3.45E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.60E-11±6.37E-11	U			1.91E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	9.36E-11±1.24E-10	U			2.33E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.55E-09±4.35E-08	U			5.10E-08	µCi/mL	GP	RADA-013
0	Promethium-146	9.02E-10±2.96E-09	U			5.40E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	4.24E-08±1.69E-09				1.73E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.65E-08±1.52E-09				3.38E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.69E-08±1.27E-09				1.01E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.12E-07±2.65E-09	J	L	I	8.31E-10	µCi/mL	GP	RADA-004
0	Technetium-99	8.17E-08±1.46E-08				2.09E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.32E-09±6.07E-09	U			5.90E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.25E-10±1.09E-10	J	I		1.20E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.07E-11±4.36E-11	U			7.77E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-6.22E-12±1.22E-11	U			7.77E-11	µCi/mL	GP	RADA-012
2	Tritium	3.01E-03±8.20E-06			5	3.94E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.47E-07±1.64E-08				8.51E-10	µCi/mL	GP	RADA-011



Well FBI 3D collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Uranium-235	2.03E-08±4.74E-09				1.98E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.49E-07±1.95E-08				8.51E-10	µCi/mL	GP	RADA-011

**WELL FBI 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 75.8 ft (23.1 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 778 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 13:26  
 Water temperature: 21.2°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	20,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0		U		10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	262				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.76		J	I	5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.29		J	I	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,020				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	6.65				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	105				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	127				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00		U		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	656				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	86.5				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,850				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,700				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200		U		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	42.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	79,800				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0		U		50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	727				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	67,700				100	µg/L	GE	EPA6010B
0	Sulfate	1,450				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0		U		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	66.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.99E-08±1.70E-08	R		4	1.76E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.20E-08±2.32E-09				1.31E-09	µCi/mL	GP	RADA-011
0	Americium-243	9.86E-10±6.01E-09		U		1.89E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-1.80E-09±5.37E-09		U		9.21E-09	µCi/mL	GP	RADA-013
0	Barium-133	2.77E-09±3.08E-09		U		5.03E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.79E-08±1.22E-08				6.11E-09	µCi/mL	GP	RADA-013
0	Carbon-14	2.70E-08±1.55E-08		J	I	2.53E-08	µCi/mL	GP	RADA-003
0	Carbon-14	2.62E-08±1.55E-08		J	I	2.53E-08	µCi/mL	GP	RADA-003
0	Cesium-134	6.46E-11±2.05E-09		U		3.12E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.19E-09±2.23E-09		U		3.65E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.54E-09±2.09E-09		U		4.04E-09	µCi/mL	GP	RADA-013
0	Curium-242	-9.14E-11±1.36E-10		U		8.82E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	7.98E-09±1.88E-09				1.09E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.80E-09±9.43E-10		J	I	3.86E-10	µCi/mL	GP	RADA-011
0	Europium-152	4.02E-09±5.85E-09		U		1.07E-08	µCi/mL	GP	RADA-013
0	Europium-154	-7.99E-10±5.56E-09		U		9.81E-09	µCi/mL	GP	RADA-013
0	Europium-155	7.80E-11±7.90E-09		U		1.36E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.86E-07±1.37E-07				8.51E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	4.31E-08±5.29E-09				3.88E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.88E-09±5.44E-09		J	I	6.02E-09	µCi/mL	GP	RADA-013
0	Lead-214	7.98E-08±1.30E-08				8.04E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	-5.12E-11±1.38E-10		U		2.73E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.86E-07±8.90E-08				1.18E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-6.16E-12±1.21E-11		U		1.36E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.85E-11±2.09E-11		U		1.78E-10	µCi/mL	GP	RADA-011
0	Potassium-40	4.51E-08±2.29E-08				4.78E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.24E-09±2.46E-09		U		1.45E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	3.87E-08±3.01E-09				4.83E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.08E-08±2.02E-09				6.98E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.65E-08±1.50E-09		J	K	1.44E-09	µCi/mL	GP	EPA904.0Modif
2	Strontium-90	1.42E-07±3.64E-09			5	9.27E-10	µCi/mL	GP	RADA-004

ESH-EMS-20010585

Well FBI 3D collected on 06/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Technetium-99	7.52E-08±1.37E-08				2.02E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.16E-09±4.29E-09	R		4	4.67E-09	µCi/mL	GP	RADA-013
0	Thorium-228	5.09E-11±1.20E-10	U			2.41E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.49E-11±6.92E-11	U			1.16E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.27E-12±4.68E-11	U			1.16E-10	µCi/mL	GP	RADA-012
2	Tritium	2.75E-03±7.20E-05			5	3.16E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.18E-07±9.73E-09				8.66E-10	µCi/mL	GP	RADA-011
2	Uranium-235	2.53E-08±3.32E-09				7.14E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.37E-07±1.21E-08				7.12E-10	µCi/mL	GP	RADA-011

**WELL FBI 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 26.86 ft (8.19 m) below TOC  
 Water elevation: Not available  
 pH: 3.6  
 Sp. conductance: 810 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 19 gal

Time: 9:42  
 Water temperature: 21.4°C  
 Air temperature: 29.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	21,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0		U		10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	258				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.79		J	I	5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.61		J	I	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,190				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	10.8				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	115				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	31.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00		U		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	389				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,880				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,760				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200		U		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	43.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	88,100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0		U		50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	712				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	73,800				100	µg/L	GE	EPA6010B
0	Sulfate	1,270				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0		U		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<40.0		V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	51.2				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.94E-09±1.65E-08	U			2.07E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.59E-08±1.57E-09				2.14E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.86E-09±1.74E-09		J	I	1.24E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-4.22E-10±6.32E-09		U		1.09E-08	µCi/mL	GP	RADA-013
0	Barium-133	-4.97E-11±3.48E-09		U		5.32E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.20E-08±1.01E-08	R		4	1.23E-08	µCi/mL	GP	RADA-013
0	Carbon-14	6.64E-09±2.74E-08		U		4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-4.09E-10±2.61E-09		U		3.86E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.76E-09±2.73E-09		U		4.96E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.16E-10±2.39E-09		U		4.29E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00		U		1.36E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.10E-08±1.30E-09				2.53E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.70E-09±5.54E-10		R	4	1.41E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.02E-09±6.70E-09		U		1.15E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.94E-09±7.36E-09		U		1.27E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.72E-09±8.57E-09		U		1.45E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.27E-07±1.30E-07				5.87E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	4.72E-08±8.44E-09				6.41E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.51E-09±7.35E-09		J	V	8.64E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.70E-08±1.27E-08		U	I	8.53E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.18E-10±1.33E-10		U		2.08E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	1.17E-10±1.55E-10		U		2.91E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.96E-07±1.06E-07				1.29E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00		U		1.26E-10	µCi/mL	GP	RADA-011

B-86

Second Quarter 2001



Well FBI 3D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Plutonium-239/240	-3.02E-11±3.42E-11	U			2.91E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.78E-08±3.22E-08	U			6.45E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-5.24E-10±3.43E-09	U			5.15E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	3.96E-08±2.37E-09				3.69E-10	µCi/mL	GP	RADA-010
2	Radium-226	3.04E-08±2.25E-09	J	L	C	4.01E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.93E-08±1.31E-09				1.11E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.49E-07±3.33E-09			5	8.62E-10	µCi/mL	GP	RADA-004
0	Technetium-99	7.97E-08±1.36E-08				1.89E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.03E-09±4.79E-09	U			4.33E-09	µCi/mL	GP	RADA-013
0	Thorium-228	3.38E-10±2.25E-10	U			3.95E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.86E-11±1.51E-10	U			3.45E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.15E-11±8.89E-11	U			1.91E-10	µCi/mL	GP	RADA-012
2	Tritium	2.85E-03±5.50E-05			5	3.32E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.02E-07±8.83E-09				6.23E-10	µCi/mL	GP	RADA-011
2	Uranium-235	2.11E-08±2.85E-09				5.30E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.06E-07±1.08E-08				5.29E-10	µCi/mL	GP	RADA-011

## WELL FBI 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 75.02 ft (22.87 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 692 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 11:31  
 Water temperature: 23.5°C  
 Air temperature: 34.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	21,800	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	22,200	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	340				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Beryllium, total recoverable	2.89	J	I		5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.99	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<1.25	U			1.25	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Cadmium, total recoverable	3.39	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,600				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,930				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	1,290				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.778	J	IL		1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	17.7				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	100				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	102				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	35.2				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	36.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,480				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,540				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	43.8				5.00	µg/L	GE	EPA6010B

Well FBI 4D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nickel, total recoverable	45.3				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	67,800				1,250	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	46,600	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	47,600	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,290				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	40.0	J	IL	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	15.7	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	2.02				1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	53.8				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	55.4				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.93E-08±1.05E-08	R		4	1.69E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.48E-08±5.21E-09				3.05E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-2.57E-09±4.50E-09	U			7.76E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	8.94E-09±1.46E-08	U			2.72E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.36E-08±8.03E-09				5.95E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.91E-08±3.00E-08	J	I		4.83E-08	µCi/mL	GP	RADA-003
0	Cesium-134	9.07E-10±1.77E-09	U			2.94E-09	µCi/mL	GP	RADA-013
0	Cesium-137	9.01E-09±3.34E-09	J	I		3.70E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-6.68E-10±1.81E-09	U			2.69E-09	µCi/mL	GP	RADA-013
0	Curium-242	2.91E-10±7.88E-10	U			2.02E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.70E-08±5.60E-09				1.88E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	7.26E-10±1.19E-09	U			2.18E-09	µCi/mL	GP	RADA-011
0	Europium-152	-3.67E-09±5.23E-09	U			8.30E-09	µCi/mL	GP	RADA-013
0	Europium-154	7.15E-10±5.91E-09	U			9.68E-09	µCi/mL	GP	RADA-013
0	Europium-155	2.09E-09±6.98E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.67E-07±3.61E-08			5	6.31E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	5.32E-08±7.56E-09				1.97E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.09E-09±6.13E-09	U			6.88E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	7.37E-07±2.76E-08				7.75E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	6.01E-11±1.39E-10	U			3.26E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.33E-11±1.00E-10	U	V		2.35E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.80E-08±2.18E-08	U			4.30E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.39E-09±2.19E-09	U			4.11E-09	µCi/mL	GP	RADA-013
2	Radium-226	3.00E-08±2.42E-09				5.43E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.83E-08±1.57E-09				1.53E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.67E-07±4.68E-09	J	K	I	9.75E-10	µCi/mL	GP	RADA-004
0	Technetium-99	7.18E-08±1.48E-08				2.26E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.81E-09±3.12E-09	U			3.93E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.72E-10±9.27E-11	J	I		1.13E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.63E-10±9.45E-11	J	I		1.32E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.46E-10±8.77E-11	J	I		1.18E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.83E-11±5.15E-11	J	I		4.71E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.15E-11±2.32E-11	U			4.86E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-3.84E-12±1.98E-11	U			6.51E-11	µCi/mL	GP	RADA-012
2	Tritium	2.48E-03±4.77E-05				4.85E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.97E-07±4.59E-08				1.48E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.91E-08±5.51E-09				1.05E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.17E-07±9.56E-08				1.14E-09	µCi/mL	GP	RADA-011

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Second Quarter 2001



## WELL FBI 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 74.98 ft (22.85 m) below TOC  
 Water elevation: Not available  
 pH: 3.6  
 Sp. conductance: 782 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 9:09  
 Water temperature: 22°C  
 Air temperature: 24.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	304				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.44	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.49	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,060				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.52	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	83.8				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	29.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	124				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,010				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,790				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	32.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	73,700				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	74,200				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	763				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	61,700				100	µg/L	GE	EPA6010B
0	Sulfate	3,730				200	µg/L	GE	EPA300.0
0	Sulfate	3,650				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	60.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	44.4				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.92E-08±1.19E-08	U			1.94E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.52E-08±1.42E-09				3.08E-10	µCi/mL	GP	RADA-011
0	Americium-243	5.17E-10±1.50E-09	U			2.86E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-7.55E-10±5.25E-09	U			9.34E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.20E-09±2.74E-09	U			4.27E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.08E-08±7.96E-09	J	I		7.19E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.66E-08±1.52E-08				2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-4.01E-09±1.99E-09	U			2.84E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.03E-08±3.64E-09	J	I		3.72E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.29E-10±2.06E-09	U			3.87E-09	µCi/mL	GP	RADA-013
0	Curium-242	2.77E-11±6.43E-11	U			1.93E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.55E-08±1.43E-09				2.58E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	8.71E-10±3.64E-10				1.19E-10	µCi/mL	GP	RADA-011
0	Europium-152	-3.50E-09±5.78E-09	U			9.25E-09	µCi/mL	GP	RADA-013
0	Europium-154	1.74E-09±5.14E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Europium-155	5.20E-09±8.36E-09	U			1.24E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.14E-07±2.13E-08			5	2.10E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	6.23E-08±8.47E-09				2.42E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.32E-10±3.79E-09	U			6.43E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.42E-08±7.72E-09				7.30E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	5.99E-11±6.44E-11	U			9.71E-11	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.08E-07±9.53E-09				3.50E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.13E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	6.61E-11±1.06E-10	U			1.98E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	-1.80E-11±2.50E-11	U			2.34E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.90E-08±3.92E-08	U			3.54E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-8.25E-10±2.44E-09	U			4.28E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	4.13E-08±2.29E-09				3.47E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.06E-08±1.70E-09				3.38E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.18E-08±1.59E-09				1.21E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.55E-07±3.39E-09	J	L	I	9.11E-10	µCi/mL	GP	RADA-004
0	Technetium-99	5.24E-08±1.29E-08				2.12E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.36E-10±3.82E-09	U			3.74E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FBI 4D collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thorium-228	2.89E-10±1.77E-10	U			2.94E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.94E-10±1.43E-11	J	I		1.57E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-7.61E-12±1.49E-11	U			9.50E-11	µCi/mL	GP	RADA-012
2	Tritium	2.59E-03±7.48E-06			5	3.80E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.65E-07±1.22E-08				1.46E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.75E-08±4.05E-09				2.40E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.56E-07±1.79E-08				2.01E-09	µCi/mL	GP	RADA-011

## WELL FBI 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 74.98 ft (22.85 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 749 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 12:04  
 Water temperature: 22°C  
 Air temperature: 34°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	20,600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	311				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.76	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	2.92	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,860				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.05	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	97.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	152				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	162				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	90.4				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,410				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,020				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	39.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	72,200				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	722				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	59,700				100	µg/L	GE	EPA6010B
0	Sulfate	3,530				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	93.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.59E-08±1.25E-08	U			1.74E-08	µCi/mL	GP	RADA-013
1	Americium-241	6.04E-09±1.59E-09				1.01E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.00E-09±5.79E-09	U			1.41E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-2.58E-09±5.90E-09	U			9.70E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.69E-09±2.89E-09	U			4.52E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	8.14E-08±1.10E-08				6.23E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.11E-08±1.63E-08	J	I		2.53E-08	µCi/mL	GP	RADA-003
0	Cesium-134	5.29E-10±2.00E-09	U			3.19E-09	µCi/mL	GP	RADA-013
0	Cesium-137	8.93E-09±3.98E-09	J	I		3.53E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	5.95E-10±1.87E-09	U			3.50E-09	µCi/mL	GP	RADA-013
0	Curium-242	6.58E-11±3.05E-10	U			1.01E-09	µCi/mL	GP	RADA-011
1	Curium-243/244	8.12E-09±1.78E-09				3.09E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.57E-10±4.04E-10	U			3.57E-10	µCi/mL	GP	RADA-011
0	Europium-152	-6.20E-10±6.21E-09	U			1.05E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.52E-09±5.32E-09	U			8.93E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.97E-09±8.20E-09	U			1.41E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.43E-07±1.30E-07				5.62E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.75E-08±9.86E-09				3.86E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.73E-09±4.42E-09	U			6.34E-09	µCi/mL	GP	RADA-013
0	Lead-214	9.10E-08±1.00E-08				7.64E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.03E-10±1.62E-10	U			3.22E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	8.01E-07±8.70E-08				1.21E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.89E-11±5.01E-11	U			1.31E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.89E-11±5.01E-11	U			1.31E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.71E-08±2.53E-08	U			4.78E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.86E-10±2.78E-09	U			4.75E-09	µCi/mL	GP	RADA-013

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Second Quarter 2001



Well FBI 4D collected on 06/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Radium, total alpha-emitting	4.60E-08±3.22E-09				6.44E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.18E-08±1.99E-09				4.36E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.23E-08±1.61E-09	J	K		1.22E-09	µCi/mL	GP	EPA904.0Modif
2	Strontium-90	1.61E-07±3.78E-09			5	8.62E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.75E-08±1.33E-08				2.01E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.38E-09±2.99E-09	U			3.62E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.55E-11±1.42E-10	U			2.78E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.18E-11±5.99E-11	U			1.10E-10	µCi/mL	GP	RADA-012
0	Thorium-232	3.04E-11±3.44E-11	U			3.04E-11	µCi/mL	GP	RADA-012
2	Tritium	2.62E-03±6.79E-05			5	2.99E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.48E-07±8.47E-09				1.10E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.04E-08±3.84E-09				7.95E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.01E-07±1.21E-08				7.92E-10	µCi/mL	GP	RADA-011

## WELL FBI 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 76 ft (23.17 m) below TOC  
 Water elevation: Not available  
 pH: 3.4  
 Sp. conductance: 908 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 10:27  
 Water temperature: 21.2°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 14 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	23,000				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	332				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.15	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.57	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	6,970				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	11.1				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	109				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	56.8				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	201				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	13.8				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,820				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,310				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	46.3				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	76,400				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	648				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	65,900				100	µg/L	GE	EPA6010B
0	Sulfate	3,050				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<60.0	U	V		50.0	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	74.2				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.11E-08±1.85E-08				3.22E-08	µCi/mL	GP	RADA-013
0	Actinium-228	3.71E-08±2.21E-08	R		4	3.61E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.81E-08±1.69E-09				2.18E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.89E-09±1.71E-09	J	I		5.51E-11	µCi/mL	GP	RADA-011
0	Antimony-125	-6.41E-09±1.10E-08	U			1.81E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-1.16E-09±9.13E-09	U			1.63E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.29E-09±6.38E-09	U			9.43E-09	µCi/mL	GP	RADA-013
0	Barium-133	-4.72E-09±4.57E-09	U			7.64E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	9.07E-09±1.66E-08	U			1.89E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	5.55E-09±1.30E-08	U			1.67E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.40E-08±2.79E-08	U			4.75E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.04E-09±4.15E-09	U			7.03E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-2.50E-09±3.81E-09	U			5.39E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.07E-08±6.77E-09	U			6.51E-09	µCi/mL	GP	RADA-013
0	Cesium-137	7.50E-09±5.82E-09	J	I		6.16E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-8.29E-10±4.34E-09	U			7.76E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.22E-09±6.17E-09	U			7.45E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.38E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.60E-08±1.59E-09				1.24E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.15E-09±4.61E-10	R		4	1.44E-10	µCi/mL	GP	RADA-011

ESH-EMS-20010585

Well FBI 4D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Europium-152	-4.35E-09±1.24E-08	U			2.08E-08	µCi/mL	GP	RADA-013
0	Europium-152	-7.81E-11±9.43E-09	U			1.71E-08	µCi/mL	GP	RADA-013
0	Europium-154	-6.89E-09±1.24E-08	U			2.07E-08	µCi/mL	GP	RADA-013
0	Europium-154	-3.49E-09±1.22E-08	U			2.16E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.61E-09±1.49E-08	U			2.34E-08	µCi/mL	GP	RADA-013
0	Europium-155	3.46E-09±1.11E-08	U			1.98E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.32E-07±1.33E-07				7.68E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	7.57E-08±1.22E-08				5.35E-09	µCi/mL	GP	RADA-006
0	Lead-212	9.82E-09±9.31E-09	U			1.49E-08	µCi/mL	GP	RADA-013
0	Lead-212	1.39E-10±8.10E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Lead-214	9.19E-09±1.84E-08	U			1.55E-08	µCi/mL	GP	RADA-013
0	Lead-214	1.96E-08±1.16E-08	R		4	1.66E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.30E-10±1.78E-10	U			3.20E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.28E-07±1.14E-07				1.52E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.16E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.85E-11±7.55E-11	U			1.16E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.66E-08±4.15E-08	U			8.99E-08	µCi/mL	GP	RADA-013
0	Potassium-40	4.01E-08±5.92E-08	U			6.03E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-6.58E-09±5.00E-09	U			7.48E-09	µCi/mL	GP	RADA-013
0	Promethium-146	2.75E-09±4.27E-09	U			8.11E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	4.59E-08±2.51E-09				3.66E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.01E-08±3.08E-09	J	L	C	5.28E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.10E-08±1.16E-09				9.57E-10	µCi/mL	GP	RADA-009
2	Strontium-90	1.87E-07±4.32E-09			5	1.09E-09	µCi/mL	GP	RADA-004
0	Technetium-99	6.19E-08±1.26E-08				1.91E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.96E-09±1.07E-08	U			8.96E-09	µCi/mL	GP	RADA-013
0	Thallium-208	2.13E-09±3.77E-09	U			7.07E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.76E-10±1.97E-10	J	I		2.39E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.71E-10±1.26E-10	U			1.95E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.67E-11±1.20E-10	U			2.60E-10	µCi/mL	GP	RADA-012
2	Tritium	2.52E-03±4.80E-05				2.94E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.98E-07±9.32E-09				1.92E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.21E-08±3.18E-09				1.62E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.95E-07±1.31E-08				1.28E-09	µCi/mL	GP	RADA-011

## WELL FBI 5D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 74.72 ft (22.77 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 1,200 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 14:01  
 Water temperature: 24.5°C  
 Air temperature: 38.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	46,300				146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	55,000	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	54,500	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	46,600				146	µg/L	WA	EPA6010B
0	Antimony, dissolved	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.50	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	618				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	502				1.80	µg/L	WA	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Beryllium, dissolved	4.00				1.60	µg/L	WA	EPA6010B
2	Beryllium, total recoverable	4.41	J	I		5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.39	J	I		5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.00				1.60	µg/L	WA	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.980	U			0.980	µg/L	GE	EPA8270C
0	Bis(2-ethylhexyl) phthalate	<10.2	JU	QV		10.2	µg/L	WA	EPA8270C
0	Bis(2-ethylhexyl) phthalate	<21.6	JU	QV		21.6	µg/L	WA	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B

B-89

Second Quarter 2001



Well FBI 5D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Cadmium, total recoverable	7.66				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	6.50				4.70	µg/L	WA	EPA6010B
0	Calcium, dissolved	10,900				471	µg/L	WA	EPA6010B
0	Calcium, total recoverable	12,800				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	12,700				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	11,000				471	µg/L	WA	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Chloride	1,190				100	µg/L	GE	EPA9056
0	Chloride	5,300			X	210	µg/L	WA	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0			X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0			X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0			X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0			X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	13.9				5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	13.9				7.00	µg/L	WA	EPA6010B
2	Cobalt, dissolved	212				4.50	µg/L	WA	EPA6010B
2	Cobalt, total recoverable	241				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	239				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	211				4.50	µg/L	WA	EPA6010B
0	Copper, dissolved	51.8				15.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	64.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	63.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	52.0				15.0	µg/L	WA	EPA6010B
0	Cyanide	<5.00	JU			5.00	µg/L	GE	EPA9012A
0	Cyanide	<15.2			X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00			X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00			X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	JU			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0				47.0	µg/L	WA	EPA6010B
0	Magnesium, dissolved	3,210				74.0	µg/L	WA	EPA6010B
0	Magnesium, total recoverable	3,810				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,800				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,270				74.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	JU			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700				0.700	µg/L	WA	EPA7470A
1	Nickel, dissolved	56.3				26.0	µg/L	WA	EPA6010B
1	Nickel, total recoverable	61.2				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	61.4				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	55.7				26.0	µg/L	WA	EPA6010B
2	Nitrate-nitrite as nitrogen	157,000				5,000	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	156,000				5,000	µg/L	WA	EPA353.2
0	Phenols	<5.00	JU			5.00	µg/L	GE	EPA9066
0	Phenols	<37.0				37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<5.00	JU			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<66.0				5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	JU			10.0	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00				5.00	µg/L	WA	EPA6010B
0	Sodium, dissolved	52,400				285	µg/L	WA	EPA6010B
0	Sodium, total recoverable	70,400	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	70,100				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	53,000				285	µg/L	WA	EPA6010B

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Well FBI 5D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	2,930				200	µg/L	GE	EPA9056
0	Sulfate	10,300			X	340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Thallium, dissolved	<55.0	U			55.0	µg/L	WA	EPA6010B
0	Thallium, total recoverable	<4.39	JU		4	10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<55.0	U			55.0	µg/L	WA	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total phosphates (as P)	<50.0	JU	L	I	50.0	µg/L	GE	EPA365.4
0	Total phosphates (as P)	26.3	J	I		67.0	µg/L	WA	EPA365.2
0	Total phosphates (as P)	28.0	J	I		67.0	µg/L	WA	EPA365.2
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	0.611	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vanadium, dissolved	<6.90	U			6.90	µg/L	WA	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<6.90	U			6.90	µg/L	WA	EPA6010B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, dissolved	104				53.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	127				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	123				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	103				53.0	µg/L	WA	EPA6010B
0	Actinium-228	3.78E-08±1.38E-08	J	I		1.07E-08	µCi/mL	GP	RADA-013
0	Actinium-228	3.40E-08±4.14E-08	J			6.77E-08	µCi/mL	ML	RADA-013
0	Actinium-228	5.49E-08±3.58E-08	J	I		5.12E-08	µCi/mL	ML	RADA-013
2	Americium-241	3.97E-08±7.88E-09	J			2.05E-09	µCi/mL	GP	RADA-011
0	Antimony-125	1.84E-09±5.30E-09	U			9.70E-09	µCi/mL	GP	RADA-013
0	Antimony-125	1.27E-08±2.44E-08	U			4.12E-08	µCi/mL	ML	RADA-013
0	Antimony-125	-7.45E-11±2.40E-08	U			4.27E-08	µCi/mL	ML	RADA-013
0	Barium-133	-1.82E-08±1.82E-08	U			3.29E-08	µCi/mL	ML	RADA-013
0	Barium-133	-1.97E-08±1.66E-08	U			3.05E-08	µCi/mL	ML	RADA-013
0	Bismuth-212	3.73E-09±2.10E-08	U			2.75E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	4.86E-08±8.61E-09	U			6.60E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.90E-08±2.31E-08	J	I		3.22E-08	µCi/mL	ML	RADA-013
0	Bismuth-214	4.63E-08±2.09E-08	J	I		2.81E-08	µCi/mL	ML	RADA-013
0	Carbon-14	8.45E-08±3.04E-08	J	I		4.76E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.32E-09±2.03E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-2.15E-08±1.41E-08	U			2.67E-08	µCi/mL	ML	RADA-013
0	Cesium-134	-1.49E-08±1.19E-08	U			2.27E-08	µCi/mL	ML	RADA-013
0	Cesium-137	5.62E-10±1.84E-09	U			3.37E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-7.88E-10±1.00E-08	U			1.82E-08	µCi/mL	ML	RADA-013
0	Cesium-137	-3.31E-10±1.13E-08	U			2.02E-08	µCi/mL	ML	RADA-013
0	Cobalt-60	1.49E-09±1.48E-09	U			4.04E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.21E-09±9.65E-09	U			1.77E-08	µCi/mL	ML	RADA-013
0	Cobalt-60	8.48E-09±8.66E-09	U			1.33E-08	µCi/mL	ML	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			1.79E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	7.58E-08±1.29E-08	U			2.37E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.24E-09±1.13E-09	J	I		7.47E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.37E-09±5.42E-09	U			8.45E-09	µCi/mL	GP	RADA-013
0	Europium-152	2.36E-10±2.93E-08	U			5.04E-08	µCi/mL	ML	RADA-013
0	Europium-152	1.69E-09±2.65E-08	U			4.56E-08	µCi/mL	ML	RADA-013
0	Europium-154	7.74E-09±5.43E-09	U			1.17E-08	µCi/mL	GP	RADA-013
0	Europium-154	-6.64E-09±3.44E-08	U			6.51E-08	µCi/mL	ML	RADA-013
0	Europium-154	-3.95E-09±3.01E-08	U			5.74E-08	µCi/mL	ML	RADA-013
0	Europium-155	2.64E-09±7.95E-09	U			1.40E-08	µCi/mL	GP	RADA-013
0	Europium-155	7.52E-11±2.63E-08	U			4.54E-08	µCi/mL	ML	RADA-013
0	Europium-155	-5.91E-09±2.75E-08	U			4.80E-08	µCi/mL	ML	RADA-013
2	Gross alpha	9.61E-07±5.13E-08			5	9.15E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	1.35E-06±3.44E-08				7.33E-09	µCi/mL	ML	RADA-001
2	Iodine-129	9.03E-08±1.13E-08				2.12E-09	µCi/mL	GP	RADA-006
2	Iodine-129	5.55E-08±9.18E-09				5.79E-09	µCi/mL	TM	EPA902.0M
2	Iodine-129	7.15E-08±8.94E-09				4.42E-09	µCi/mL	TM	EPA902.0M
0	Lead-212	2.26E-09±5.92E-09	U			6.79E-09	µCi/mL	GP	RADA-013
0	Lead-212	1.27E-08±1.81E-08	U			2.99E-08	µCi/mL	ML	RADA-013
0	Lead-212	3.86E-09±1.77E-08	U			3.01E-08	µCi/mL	ML	RADA-013
0	Lead-214	4.46E-08±2.03E-08	J	I		2.87E-08	µCi/mL	ML	RADA-013
0	Lead-214	2.44E-08±2.18E-08	U			3.49E-08	µCi/mL	ML	RADA-013
2	Nonvolatile beta	1.73E-06±4.26E-08				8.41E-09	µCi/mL	GP	EPA900.0



Well FBI 5D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nonvolatile beta	1.38E-06±2.35E-08				8.13E-09	µCi/mL	ML	RADA-001
0	Plutonium-238	3.41E-11±1.86E-10	U			5.22E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.61E-11±1.29E-10	U	V		3.04E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.66E-08±2.32E-08	U			4.86E-08	µCi/mL	GP	RADA-013
0	Potassium-40	1.83E-08±1.13E-07	U			2.07E-07	µCi/mL	ML	RADA-013
0	Potassium-40	-6.65E-08±1.23E-07	U			2.44E-07	µCi/mL	ML	RADA-013
0	Promethium-146	5.15E-10±2.46E-09	U			4.47E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-3.46E-09±1.80E-08	U			3.26E-08	µCi/mL	ML	RADA-013
0	Promethium-146	6.54E-09±1.91E-08	U			3.29E-08	µCi/mL	ML	RADA-013
2	Radium-226	2.62E-08±2.02E-09				5.61E-10	µCi/mL	GP	RADA-008
2	Radium-228	4.14E-08±1.90E-09				1.19E-09	µCi/mL	GP	RADA-009
2	Radium-228	4.06E-07±8.55E-09	J	K	C	1.74E-09	µCi/mL	TM	EPA904.0M
2	Radium-228	4.00E-07±8.57E-09	J	K	C	2.23E-09	µCi/mL	TM	EPA904.0M
2	Strontium-90	4.68E-07±8.04E-09	J	K	C	8.87E-10	µCi/mL	GP	RADA-004
2	Strontium-90	3.89E-07±7.56E-09				1.86E-09	µCi/mL	TM	EMLSR02M
2	Strontium-90	4.44E-07±8.45E-09				1.68E-09	µCi/mL	TM	EMLSR02M
0	Technetium-99	1.20E-07±1.72E-08				2.19E-08	µCi/mL	GP	RADA-005
2	Technetium-99	4.92E-05±2.36E-07				4.48E-08	µCi/mL	TM	EICHROM
2	Technetium-99	4.68E-05±2.30E-07				4.49E-08	µCi/mL	TM	EICHROM
0	Thallium-208	2.56E-10±4.12E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Thallium-208	4.49E-09±2.77E-08	U	V		4.88E-08	µCi/mL	ML	RADA-013
0	Thallium-208	2.36E-08±2.86E-08	U	V		4.67E-08	µCi/mL	ML	RADA-013
0	Thorium-228	3.27E-10±1.20E-10	J	I		1.14E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.46E-11±3.83E-11	U			7.35E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.41E-11±2.01E-11	U			2.12E-11	µCi/mL	GP	RADA-012
2	Tritium	5.14E-03±9.90E-05				7.69E-06	µCi/mL	GP	RADA-002
2	Tritium	4.75E-03±1.47E-05				5.95E-07	µCi/mL	ML	RADA-002
2	Uranium-233/234	4.18E-07±1.14E-07				1.85E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.98E-08±1.22E-08				1.86E-09	µCi/mL	GP	RADA-011
2	Uranium-238	5.41E-07±1.48E-07				1.14E-09	µCi/mL	GP	RADA-011

## WELL FBI 5D Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 74.72 ft (22.77 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 1,200 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 14:01  
 Water temperature: 24.5°C  
 Air temperature: 38.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	55,100	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	54,400	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	627				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
2	Beryllium, total recoverable	4.66	J	I		5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.71	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	8.09				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	16,000				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	15,200				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloride	2,780				100	µg/L	GE	EPA9056
0	Chloride	2,730				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	17.5				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	248				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	249				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	64.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	62.8				5.00	µg/L	GE	EPA6010B

Well FBI 5D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	4,020				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,980				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	64.9				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	65.7				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	155,000				5,000	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	155,000				5,000	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	71,600	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	72,400	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,350				200	µg/L	GE	EPA9056
0	Sulfate	3,270				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	80.0	J	L	I	50.0	µg/L	GE	EPA365.4
0	Total phosphates (as P)	80.0	J	L	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.579	J	I		1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	1.10	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	134				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	124				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.02E-08±1.51E-08	R		4	2.57E-08	µCi/mL	GP	RADA-013
2	Americium-241	3.58E-08±7.99E-09				8.02E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.60E-09±5.32E-09	U			8.86E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	-3.00E-09±1.61E-08	U			2.88E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	4.28E-08±9.54E-09				7.70E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.06E-08±2.93E-08	J	I		4.70E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-9.55E-10±1.93E-09	U			3.35E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.63E-10±2.59E-09	U			4.19E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	7.12E-10±2.21E-09	U			4.39E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			8.64E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	6.56E-08±1.25E-08				8.03E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.10E-09±2.01E-09	J	I		9.31E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.59E-09±6.23E-09	U			1.10E-08	µCi/mL	GP	RADA-013
0	Europium-154	5.69E-09±5.89E-09	U			1.23E-08	µCi/mL	GP	RADA-013
0	Europium-155	-2.08E-09±8.65E-09	U			1.50E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.08E-06±6.37E-08			5	8.24E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	7.89E-08±9.96E-09				1.96E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.32E-09±6.35E-09	U			6.15E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.41E-06±4.68E-08				9.63E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-2.68E-11±3.81E-11	U			3.47E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	1.15E-10±2.10E-10	U			4.52E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.16E-10±2.10E-10	U	V		4.51E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-3.06E-11±3.09E-11	U	V		2.41E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.35E-08±4.18E-08	R		4	2.92E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.28E-10±2.59E-09	U			4.50E-09	µCi/mL	GP	RADA-013
2	Radium-226	2.78E-08±2.10E-09				4.42E-10	µCi/mL	GP	RADA-008
2	Radium-226	2.85E-08±2.14E-09				4.97E-10	µCi/mL	GP	RADA-008
2	Radium-228	4.54E-08±2.20E-09				1.38E-09	µCi/mL	GP	RADA-009
2	Radium-228	3.76E-08±1.95E-09				1.22E-09	µCi/mL	GP	RADA-009
2	Strontium-90	4.08E-07±5.01E-09	J	K	I	5.38E-10	µCi/mL	GP	RADA-004
2	Strontium-90	3.60E-07±6.05E-09	J	K	I	6.89E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.14E-07±1.68E-08				2.17E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.83E-09±2.33E-09	U			4.46E-09	µCi/mL	GP	RADA-013
0	Thallium-228	3.52E-10±1.43E-10	J	I		1.58E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.23E-11±6.45E-11	U			1.00E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.11E-11±4.29E-11	U			8.87E-11	µCi/mL	GP	RADA-012



Well FBI 5D collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	5.06E-03±9.88E-05				7.77E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.78E-07±9.66E-08				1.53E-09	µCi/mL	GP	RADA-0112
2	Uranium-233/234	4.53E-07±1.22E-07				1.46E-09	µCi/mL	GP	RADA-011
2	Uranium-235	4.05E-08±1.16E-08				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-235	4.04E-08±1.23E-08				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.96E-07±1.26E-07				1.53E-09	µCi/mL	GP	RADA-011
2	Uranium-238	6.08E-07±1.64E-07				1.11E-09	µCi/mL	GP	RADA-011

**WELL FBI 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 74.68 ft (22.76 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 120 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 13:53  
 Water temperature: 22.3°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	52,400				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	574				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.49	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	8.23				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	11,500				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	9.54				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	232				5.00	µg/L	GE	EPA6010B
1	Copper, total recoverable	577				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,580				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	869				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,700				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	4,810				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	59.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	137,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	195				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,370				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	67,900				100	µg/L	GE	EPA6010B
0	Sulfate	3,300				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	60.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	239				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.32E-08±2.19E-08	R		4	2.93E-08	µCi/mL	GP	RADA-013
2	Americium-241	4.01E-08±4.48E-09				8.18E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.53E-09±6.52E-09	U			6.28E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.06E-09±6.88E-09	U			1.13E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.76E-09±3.49E-09	U			5.69E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.34E-08±9.11E-09	J	I		8.83E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.10E-08±1.53E-08				2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-7.21E-10±2.36E-09	U			4.13E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.19E-09±4.45E-09	U			4.53E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.26E-10±2.96E-09	U			5.55E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.52E-10±2.17E-10	U			4.55E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	7.06E-08±5.90E-09				3.90E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.58E-09±9.90E-10	J	I		9.49E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.61E-09±7.02E-09	U			1.23E-08	µCi/mL	GP	RADA-013
0	Europium-154	4.91E-09±6.93E-09	U			1.36E-08	µCi/mL	GP	RADA-013
0	Europium-155	7.55E-09±8.04E-09	U			1.45E-08	µCi/mL	GP	RADA-013
2	Gross alpha	8.11E-07±2.80E-08			5	2.95E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	8.06E-08±1.02E-08				2.49E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.39E-09±6.58E-09	J	I		7.29E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.28E-08±9.88E-09	J	I		9.03E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.60E-10±1.18E-10	J	I		1.17E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.46E-06±1.15E-08				4.03E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.67E-11±1.31E-10	U			4.25E-10	µCi/mL	GP	RADA-011

Well FBI 5D collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Plutonium-239/240	-9.99E-11±6.19E-11	U			4.25E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	-5.99E-11±4.80E-11	U			3.57E-10	µCi/mL	GP	RADA-011
0	Potassium-40	7.02E-08±3.50E-08	U			7.31E-08	µCi/mL	GP	RADA-013
0	Promethium-146	3.60E-09±3.15E-09	U			5.72E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	8.24E-08±2.34E-09				2.52E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.94E-08±2.13E-09				4.32E-10	µCi/mL	GP	RADA-008
2	Radium-228	4.29E-08±2.11E-09				1.39E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.92E-07±6.31E-09	J	L	I	1.27E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.28E-07±1.85E-08				2.37E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.00E-10±5.16E-09	U			5.90E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.45E-10±1.59E-10	J	I		2.08E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.51E-11±5.21E-11	J	I		3.25E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-1.08E-13±2.61E-11	U			8.32E-11	µCi/mL	GP	RADA-012
2	Tritium	4.46E-03±1.00E-05			5	3.95E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.93E-07±1.85E-08				9.09E-10	µCi/mL	GP	RADA-011
2	Uranium-235	2.26E-08±5.16E-09				1.89E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.19E-07±2.21E-08				9.09E-10	µCi/mL	GP	RADA-011

**WELL FBI 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 74.98 ft (22.85 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 109 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 10:56  
 Water temperature: 20°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): RCV

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	43,300				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	501				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.48	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.83				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	10,900				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.02				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	190				5.00	µg/L	GE	EPA6010B
1	Copper, total recoverable	596				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	5,410				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	191				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,200				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	4,070				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	50.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	129,000				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	129,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	305				50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	311				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,400				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	57,300				100	µg/L	GE	EPA6010B
0	Sulfate	4,190				200	µg/L	GE	EPA300.0
0	Sulfate	4,050				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	233				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.53E-08±1.41E-08	J	I		1.27E-08	µCi/mL	GP	RADA-013
2	Americium-241	3.42E-08±3.32E-09				2.52E-10	µCi/mL	GP	RADA-011
2	Americium-241	3.09E-08±3.60E-09				1.97E-09	µCi/mL	GP	RADA-011
0	Americium-243	3.59E-09±5.29E-09	U			3.48E-09	µCi/mL	GP	RADA-011
0	Americium-243	2.20E-09±5.79E-09	U			2.20E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-4.66E-09±6.15E-09	U			9.90E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.57E-09±3.30E-09	U			5.09E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	9.05E-08±1.08E-08				7.21E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.91E-08±1.53E-08	J	I		2.43E-08	µCi/mL	GP	RADA-003



Well FBI 5D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cesium-134	4.54E-10±2.07E-09	U			3.30E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-3.85E-10±2.46E-09	U			3.76E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.42E-09±2.12E-09	U			4.31E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			2.91E-10	µCi/mL	GP	RADA-011
0	Curium-242	4.24E-11±6.74E-10	U			1.96E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	6.15E-08±4.43E-09				2.53E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	5.39E-08±4.72E-09				2.48E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.07E-09±6.34E-10	J	I		2.93E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	2.36E-09±1.24E-09	J	I		1.59E-09	µCi/mL	GP	RADA-011
0	Europium-152	2.74E-10±6.37E-09	U			1.09E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.12E-09±6.71E-09	U			1.21E-08	µCi/mL	GP	RADA-013
0	Europium-155	-2.61E-09±9.24E-09	U			1.59E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.04E-06±1.55E-07				6.04E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	9.00E-08±1.30E-08				4.00E-09	µCi/mL	GP	RADA-006
2	Iodine-129	9.12E-08±1.26E-08				4.10E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.88E-08±6.96E-09	J	I		6.63E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.07E-07±1.18E-08				8.05E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.47E-10±2.23E-10	U			4.38E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.22E-06±1.03E-07				1.27E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-9.53E-11±9.11E-11	U			4.07E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	-9.53E-11±9.11E-11	U			4.07E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	-6.23E-12±1.22E-11	U			1.37E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-3.09E-11±7.95E-11	U			3.17E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-3.09E-11±7.95E-11	U			3.17E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			7.78E-11	µCi/mL	GP	RADA-011
0	Potassium-40	1.10E-08±2.82E-08	U			4.70E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.95E-10±2.87E-09	U			4.96E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	7.67E-08±4.25E-09				6.47E-10	µCi/mL	GP	RADA-010
2	Radium-226	4.26E-08±2.63E-09				5.47E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.37E-08±2.00E-09	J	K	C	1.23E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.10E-07±5.28E-09			5	8.11E-10	µCi/mL	GP	RADA-004
0	Technetium-99	7.83E-08±1.48E-08				2.20E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.17E-09±4.08E-09	J	I		3.72E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.89E-10±1.34E-10				1.23E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.22E-10±9.84E-11	J	I		1.15E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.46E-10±1.51E-10				1.52E-10	µCi/mL	GP	RADA-012
2	Tritium	4.03E-03±1.05E-09			5	3.98E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.14E-07±1.27E-08				1.39E-09	µCi/mL	GP	RADA-011
2	Uranium-233/234	3.14E-07±1.27E-08				1.39E-09	µCi/mL	GP	RADA-011
2	Uranium-233/234	2.98E-07±1.23E-08				3.95E-10	µCi/mL	GP	RADA-011
2	Uranium-235	3.21E-08±4.07E-09				8.45E-10	µCi/mL	GP	RADA-011
2	Uranium-235	3.21E-08±4.07E-09				8.45E-10	µCi/mL	GP	RADA-011
2	Uranium-235	3.28E-08±4.09E-09				8.33E-10	µCi/mL	GP	RADA-011
2	Uranium-238	4.85E-07±1.58E-08				4.01E-10	µCi/mL	GP	RADA-011
2	Uranium-238	4.85E-07±1.58E-08				4.01E-10	µCi/mL	GP	RADA-011
2	Uranium-238	4.48E-07±1.51E-08				3.95E-10	µCi/mL	GP	RADA-011

## WELL FBI 5D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 75.7 ft (23.07 m) below TOC  
 Water elevation: Not available  
 pH: 3.5  
 Sp. conductance: 1,087 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 13:45  
 Water temperature: 22.4°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	46,200				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	530				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.53	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	6.31				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,530				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	4.77	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	199				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	51.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A

Well FBI 5D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Iron, total recoverable	4,790				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,160				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	4,230				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	46.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	132,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	184				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,160				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	61,900				100	µg/L	GE	EPA6010B
0	Sulfate	2,950				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<40.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	86.5				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.73E-08±2.16E-08	R		4	2.40E-08	µCi/mL	GP	RADA-013
2	Americium-241	3.24E-08±5.51E-09				7.32E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.84E-09±8.91E-09	U			9.97E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.92E-09±6.57E-09	U			1.11E-08	µCi/mL	GP	RADA-013
0	Barium-133	3.64E-10±3.53E-09	U			5.48E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.57E-08±1.01E-08	R		4	1.27E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.38E-08±2.88E-08	U			4.72E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.53E-09±2.72E-09	U			3.86E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.11E-10±2.47E-09	U			4.29E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	6.57E-10±2.73E-09	U			4.93E-09	µCi/mL	GP	RADA-013
0	Curium-242	-6.63E-11±1.01E-10	U			1.46E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	6.28E-08±7.63E-09			4	1.29E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	2.55E-09±1.66E-09	R			8.49E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.82E-09±6.87E-09	U			1.18E-08	µCi/mL	GP	RADA-013
0	Europium-154	-5.55E-09±7.99E-09	U			1.30E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.60E-09±8.55E-09	U			1.48E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.26E-06±1.78E-07				5.17E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	8.91E-08±1.46E-08				5.66E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.30E-08±5.94E-09	R		4	9.45E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.99E-08±1.09E-08	J	I		8.70E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.15E-10±1.72E-10	U			2.31E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.39E-06±1.54E-07				1.41E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.36E-11±8.89E-11	U			2.33E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.30E-11±9.14E-11	U			2.75E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.45E-08±3.41E-08	U			6.57E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.74E-09±3.15E-09	U			5.61E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	7.63E-08±3.17E-09			L	2.81E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.74E-08±3.18E-09	J		C	5.49E-10	µCi/mL	GP	RADA-008
2	Radium-228	5.06E-08±1.86E-09				9.15E-10	µCi/mL	GP	RADA-009
2	Strontium-90	3.64E-07±5.39E-09			5	7.29E-10	µCi/mL	GP	RADA-004
0	Technetium-99	8.73E-08±1.51E-08				2.11E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.41E-09±4.76E-09	J	I		3.96E-09	µCi/mL	GP	RADA-013
0	Thorium-228	7.22E-10±2.38E-10				1.38E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.58E-11±8.72E-11	U			1.63E-10	µCi/mL	GP	RADA-012
0	Thorium-232	<0.00E+00	U			6.49E-11	µCi/mL	GP	RADA-012
2	Tritium	4.01E-03±7.80E-05			5	4.14E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.27E-07±1.28E-08				2.19E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.08E-08±3.94E-09				1.26E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.78E-07±1.54E-08				1.26E-09	µCi/mL	GP	RADA-011



## WELL FBI 6D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: 75.58 ft (23.04 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 823 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 10:22  
 Water temperature: 22.3°C  
 Air temperature: 25°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	26.200				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	26.200				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	312				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Beryllium, dissolved	3.13	J	I		5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.38	J	I		5.00	µg/L	GE	EPA6010B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	5.66				5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	7.190				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	6.950	J	K	I	100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	2,550				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.180	J	IL	O	5.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	15.0				5.00	µg/L	GE	EPA6010B
2	Cobalt, dissolved	203				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	193				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	34.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	33.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	3.210				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3.020				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	JU	Q		0.200	µg/L	GE	EPA7470A
1	Nickel, dissolved	63.5				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	93.500				2,500	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	50,700				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	51.100				100	µg/L	GE	EPA6010B
0	Sulfate	1,080				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<140	U	V		50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	8.70	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	1.07	J	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	76.0				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	71.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	9.38E-09±1.13E-08	U			1.72E-08	µCi/mL	GP	RADA-013

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Well FBI 6D collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Americium-241	8.62E-09±1.55E-09				1.11E-10	µCi/mL	GP	RADA-011
0	Antimony-125	1.47E-09±5.76E-09	U			9.98E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	7.61E-09±1.67E-08	U			3.08E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	4.09E-08±9.04E-09				6.35E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.99E-08±1.55E-08	J	I		2.39E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.05E-10±2.07E-09	U			3.28E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.11E-09±3.20E-09	U			3.18E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.63E-09±1.81E-09	U			2.87E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			1.30E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	9.83E-09±1.72E-09				1.11E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	6.84E-10±3.53E-10	J	I		1.28E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.01E-09±5.78E-09	U			9.34E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.85E-09±6.59E-09	U			9.66E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.26E-09±8.10E-09	U			1.40E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.06E-07±9.54E-09				1.14E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	5.79E-08±8.78E-09				3.17E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.21E-10±5.14E-09	U			6.82E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	7.38E-07±8.17E-09	J	K	I	1.47E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.75E-10±2.26E-10	U			4.41E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.85E-11±7.52E-11	U			2.21E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.09E-08±2.67E-08	U			2.83E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-9.65E-10±2.46E-09	U			4.08E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.25E-09±4.14E-10			5	2.48E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.61E-08±1.42E-09				1.07E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.49E-07±4.72E-09				1.00E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.15E-07±1.65E-08	U			2.07E-08	µCi/mL	GP	RADA-005
0	Thallium-208	8.58E-10±4.08E-09				4.38E-09	µCi/mL	GP	RADA-013
0	Thorium-228	7.86E-10±3.09E-10	J	I		3.86E-10	µCi/mL	GP	RADA-012
0	Thorium-230	9.21E-11±9.24E-11	U			1.48E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-2.23E-11±8.21E-11	U			2.12E-10	µCi/mL	GP	RADA-012
2	Uranium-233/234	1.83E-07±2.45E-08				1.28E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.34E-08±2.58E-09				7.90E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.18E-07±2.90E-08				4.63E-10	µCi/mL	GP	RADA-011

## WELL FBI 6D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 75.61 ft (23.05 m) below TOC  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 815 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 10:29  
 Water temperature: 23.2°C  
 Air temperature: 27.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
2	Tritium	2.99E-03±9.54E-06				7.47E-07	µCi/mL	GP	RADA-002

## WELL FBI 6D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 75.52 ft (23.02 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 330 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 9:03  
 Water temperature: 22°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	29.500				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	348				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.45	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.80				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7.230				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.88	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	202				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	35.3				5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FBI 6D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	774				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3.270				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3.590				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	57.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	93,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	755				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00				5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	58,700				100	µg/L	GE	EPA6010B
0	Sulfate	844				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0				10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	30.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	75.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.76E-08±1.23E-08	J	I		1.06E-08	µCi/mL	GP	RADA-013
2	Americium-241	9.16E-09±1.06E-09				1.99E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.73E-09±1.36E-09	J	I		2.75E-10	µCi/mL	GP	RADA-011
0	Antimony-125	2.27E-09±5.11E-09	U			9.38E-09	µCi/mL	GP	RADA-013
0	Barium-133	-2.41E-10±2.67E-09	U			3.93E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.10E-08±8.59E-09				6.85E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.74E-08±1.63E-08	J	I		2.56E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.04E-09±1.85E-09	U			3.11E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-6.34E-10±1.84E-09	U			3.14E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.37E-09±2.29E-09	U			4.59E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.37E-11±5.93E-11	U			1.01E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.05E-08±1.13E-09				9.60E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	9.65E-10±3.71E-10				1.11E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.12E-09±6.39E-09	U			9.34E-09	µCi/mL	GP	RADA-013
0	Europium-154	5.85E-09±5.02E-09	U			1.07E-08	µCi/mL	GP	RADA-013
0	Europium-155	3.35E-09±7.59E-09	U			1.34E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.42E-07±1.30E-07				5.27E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.84E-08±9.73E-09				3.69E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.35E-09±5.40E-09				5.91E-09	µCi/mL	GP	RADA-013
0	Lead-214	7.26E-08±9.85E-09				6.73E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.79E-10±1.87E-10	U			2.91E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	9.88E-07±8.43E-08				1.23E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			7.46E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			7.46E-11	µCi/mL	GP	RADA-011
0	Potassium-40	4.19E-08±2.84E-08	JU	IV		2.67E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-9.24E-10±2.36E-09	U			4.09E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	8.11E-08±3.24E-09				2.63E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.74E-08±3.75E-09				6.49E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.55E-08±2.02E-09	J	L	I	1.33E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.15E-07±5.73E-09			5	1.00E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.06E-07±1.41E-08				1.84E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.90E-09±1.95E-09	U			3.95E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.56E-10±1.13E-10	J	I		9.20E-11	µCi/mL	GP	RADA-012
0	Thorium-230	5.57E-11±5.84E-11	U			9.03E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.13E-11±3.72E-11	U			7.53E-11	µCi/mL	GP	RADA-012
2	Tritium	2.82E-03±8.00E-06			5	4.01E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.57E-07±1.15E-08				1.52E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.43E-08±3.50E-09				1.52E-09	µCi/mL	GP	RADA-011
2	Uranium-238	2.06E-07±1.32E-08				1.36E-09	µCi/mL	GP	RADA-011

## WELL FBI 6D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 75.5 ft (23.01 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 815 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	28,500				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	340				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.31	J	I		5.00	µg/L	GE	EPA6010B

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Well FBI 6D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Cadmium, total recoverable	5.55				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,330				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.96	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	193				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	33.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	707				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,350				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3,510				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	56.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	67,500				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	109				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	788				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	55,200				100	µg/L	GE	EPA6010B
0	Sulfate	1,160				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<6.29	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	70.9				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.87E-08±1.65E-08	R		4	2.16E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-3.20E-09±6.34E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Barium-133	1.25E-09±3.33E-09	U			4.99E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.30E-07±1.23E-08				9.50E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.94E-08±1.49E-08	U			2.46E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.44E-08±1.46E-08	U			2.44E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.01E-10±2.68E-09	U			4.03E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-9.84E-10±2.52E-09	U			4.31E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-8.05E-10±2.32E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Europium-152	9.31E-09±4.87E-09	U			1.12E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.38E-09±7.20E-09	U			1.28E-08	µCi/mL	GP	RADA-013
0	Europium-155	4.28E-10±7.52E-09	U			1.28E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.77E-07±2.03E-08			5	2.63E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	6.14E-07±3.28E-08			5	3.30E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	8.14E-08±1.16E-08				3.50E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.67E-09±7.01E-09	U			6.45E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.30E-07±1.08E-08				7.82E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	8.33E-11±1.82E-10	U			3.20E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.71E-07±9.10E-09				3.93E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.07E-07±1.48E-08				5.10E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	9.02E-11±1.87E-10	U			4.26E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-7.26E-11±4.74E-11	U			3.31E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.99E-08±3.62E-08	U			4.28E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.61E-10±2.86E-09	U			5.09E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	6.87E-08±4.03E-09				4.83E-10	µCi/mL	GP	RADA-010
2	Radium-226	3.66E-08±2.46E-09				4.61E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.94E-08±1.40E-09	J	K	C	1.18E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.88E-07±7.92E-09				1.75E-09	µCi/mL	GP	RADA-004
0	Technetium-99	9.40E-08±1.52E-08				2.10E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.76E-09±4.80E-09	R		4	5.10E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.30E-10±1.11E-10	J	I		1.62E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.91E-11±4.64E-11	U			7.95E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-3.56E-12±2.26E-11	U			6.94E-11	µCi/mL	GP	RADA-012
2	Tritium	2.72E-03±7.11E-05			5	3.13E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.63E-07±8.25E-09				1.04E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.76E-08±2.73E-09				8.35E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.05E-07±9.24E-09				8.32E-10	µCi/mL	GP	RADA-011

## WELL FBI 6D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 76.18 ft (23.22 m) below TOC  
 Water elevation: Not available  
 pH: 3.6  
 Sp. conductance: 628 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	24,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FBI 6D collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	294				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.81	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.01				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	6,390				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	6.49				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	159				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	31.1				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	681				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,930				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,870				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	46.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	77.100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	639				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	50,500				100	µg/L	GE	EPA6010B
0	Sulfate	1,050				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<40.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	62.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.10E-08±2.48E-08	U			2.74E-08	µCi/mL	GP	RADA-013
2	Americium-241	7.96E-09±1.12E-09				2.15E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.81E-09±1.74E-09	J	I		2.64E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.70E-09±8.80E-09	U			1.49E-08	µCi/mL	GP	RADA-013
0	Barium-133	-2.13E-09±4.55E-09	U			6.59E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.76E-08±1.50E-08	J	I		1.09E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.04E-08±2.78E-08				4.74E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-4.44E-10±3.67E-09	U			5.33E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.14E-08±6.40E-09	R		4	1.01E-08	µCi/mL	GP	RADA-013
0	Cobalt-60	1.87E-09±3.57E-09	U			6.53E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.36E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	9.88E-09±1.24E-09				2.53E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	4.25E-10±2.77E-10	J	I		1.42E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.42E-10±9.70E-09	U			1.45E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.08E-09±9.02E-09	U			1.57E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.31E-10±1.03E-08	U			1.71E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.08E-07±3.79E-08				1.52E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.19E-08±5.23E-09				3.83E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.12E-09±1.04E-08	U	V		8.26E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.77E-08±1.31E-08	J	I		1.05E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.36E-10±1.57E-10	U			2.85E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.22E-07±3.95E-08				4.21E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.03E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			1.03E-10	µCi/mL	GP	RADA-011
0	Potassium-40	9.26E-08±8.83E-08	R		4	6.08E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.29E-09±4.03E-09	U			6.78E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	7.22E-08±3.07E-09				3.40E-10	µCi/mL	GP	RADA-010
2	Radium-226	3.45E-08±2.46E-09	J	L	C	4.89E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.07E-08±1.20E-09				1.05E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.27E-07±4.92E-09			5	9.63E-10	µCi/mL	GP	RADA-004
0	Technetium-99	7.05E-08±1.26E-08				1.80E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.48E-09±9.10E-09				6.88E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.89E-10±1.41E-10	U			2.47E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.85E-11±8.70E-11	U			1.79E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.90E-11±3.72E-11	U			5.70E-11	µCi/mL	GP	RADA-012
2	Tritium	2.10E-03±3.09E-05			5	2.65E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.54E-07±6.61E-09				6.55E-10	µCi/mL	GP	RADA-011
2	Uranium-233/234	1.58E-07±6.83E-09				7.46E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.17E-08±1.84E-09				6.57E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.19E-08±1.87E-09				4.89E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.00E-07±7.55E-09				5.76E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.09E-07±7.84E-09				4.88E-10	µCi/mL	GP	RADA-011

## WELL FBI 7D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 68.21 ft (20.79 m) below TOC  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 1,222 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 9 gal

Time: 11:12  
 Water temperature: 23.9°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	59,700	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	59,300	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	702				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Beryllium, total recoverable	4.17	J	I		5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.15	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.980	U			0.980	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	7.01				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	18,700				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	18,600				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	1,770				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	6.67				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	200				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	198				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	95.1				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	94.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,800				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,770				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	69.6				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	69.8				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	172,000				5,000	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	77,400	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	76,900	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	1,820				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	20.0	J	IL	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	8.13	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	121				5.00	µg/L	GE	EPA6010B



Well FBI 7D collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Zinc, total recoverable	119				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.40E-08±1.23E-08				1.05E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.42E-08±4.41E-09				8.17E-10	µCi/mL	GP	RADA-011
2	Americium-241	1.37E-08±2.26E-09				1.79E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.16E-09±5.29E-09	U			9.24E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	9.15E-09±1.53E-08	U			2.79E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	6.58E-08±8.20E-09				5.82E-09	µCi/mL	GP	RADA-013
0	Carbon-14	7.04E-08±2.96E-08	J	I		4.70E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.53E-10±2.13E-09	U			3.17E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-4.01E-10±2.38E-09	U			3.55E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.18E-10±2.02E-09	U			3.68E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			8.99E-10	µCi/mL	GP	RADA-011
0	Curium-242	2.64E-10±2.65E-10	U			1.98E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.66E-08±4.87E-09				8.18E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.72E-08±2.66E-09				5.72E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.16E-10±6.34E-10	U			9.48E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.45E-09±6.51E-10	R		4	2.08E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.76E-09±5.36E-09	U			9.39E-09	µCi/mL	GP	RADA-013
0	Europium-154	7.04E-09±7.31E-09	U			9.73E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.02E-09±7.70E-09	U			1.33E-08	µCi/mL	GP	RADA-013
2	Gross alpha	8.45E-07±5.01E-08			5	6.38E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	8.39E-08±1.09E-08				2.35E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.49E-09±5.41E-09	U			5.90E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.51E-06±4.02E-08				6.65E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.03E-11±1.01E-10	U			1.51E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.22E-10±2.63E-10	U	V		4.07E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.36E-08±2.49E-08	U			4.65E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.02E-10±2.39E-09	U			4.27E-09	µCi/mL	GP	RADA-013
2	Radium-226	1.92E-08±2.08E-09				7.97E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.83E-08±1.83E-09				1.04E-09	µCi/mL	GP	RADA-009
2	Strontium-90	4.16E-07±6.70E-09	J	K	I	6.90E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.12E-07±1.70E-08				2.24E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.61E-10±3.12E-09	U			3.80E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.02E-10±1.36E-10				1.06E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.74E-11±5.40E-11	J	I		5.95E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.32E-11±2.71E-11	U			2.32E-11	µCi/mL	GP	RADA-012
2	Tritium	6.42E-03±1.20E-09				8.43E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	4.13E-07±1.07E-07				2.09E-09	µCi/mL	GP	RADA-011
2	Uranium-235	4.31E-08±1.25E-08				1.50E-09	µCi/mL	GP	RADA-011
2	Uranium-238	5.24E-07±1.35E-07				1.60E-09	µCi/mL	GP	RADA-011

## WELL FBI 7D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
Depth to water: 68.17 ft (20.78 m) below TOC  
Water elevation: Not available  
pH: 4.1  
Sp. conductance: 155 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 12 gal

Time: 13:56  
Water temperature: 22.2°C  
Air temperature: 35.7°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	27,400	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	JU	L	I	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	344	J	L	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.74	J	IL	I	5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.42	J	IL	I	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,600	J	L	I	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	4.21	J	IL	I	5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	99.2	J	L	I	5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	69.3	J	L	I	5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q	I	5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,520	J	L	I	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	6.67	J	L	I	5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,920	J	L	I	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,280	J	L	I	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.204				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	38.8	J	L	I	5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	80,200				2,500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	197				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	866	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B

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Well FBI 7D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, total recoverable	<0.725	JU				µg/L	GE	EPA6010B
0	Sodium, total recoverable	43,200	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	653				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<9.33	JU			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	64.5	J	L	I	5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.19E-08±1.32E-08	R		4	2.03E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.54E-08±2.10E-09				2.23E-10	µCi/mL	GP	RADA-011
0	Americium-243	4.43E-10±3.09E-09	U			4.24E-10	µCi/mL	GP	RADA-011
0	Antimony-125	7.17E-10±4.71E-09	U			8.38E-09	µCi/mL	GP	RADA-013
0	Barium-133	-1.78E-09±2.47E-09	U			3.67E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	8.99E-08±1.01E-08				5.45E-09	µCi/mL	GP	RADA-013
0	Carbon-14	8.92E-08±1.76E-08				2.57E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.15E-10±1.75E-09	U			2.72E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-7.32E-10±2.94E-09	U			3.04E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.55E-10±2.09E-09	U			3.67E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.97E-11±3.16E-11	U			4.33E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.68E-08±2.18E-09				2.23E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.29E-09±6.54E-10	J	I		2.58E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.96E-09±5.11E-09	U			8.81E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.69E-09±4.70E-09	U			8.16E-09	µCi/mL	GP	RADA-013
0	Europium-155	6.06E-09±7.56E-09	U			1.33E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.18E-06±1.78E-07				1.03E-07	µCi/mL	GP	EPA900.0
2	Iodine-129	1.03E-07±1.41E-08				3.84E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.15E-09±4.31E-09	U			5.85E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.04E-07±1.00E-08				6.21E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	7.66E-10±4.26E-10	J	I		4.49E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.81E-06±1.11E-07				1.56E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	6.07E-11±9.69E-11	U			1.82E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-8.28E-12±1.62E-11	U			1.82E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.95E-08±2.15E-08	U			4.42E-08	µCi/mL	GP	RADA-013
0	Promethium-146	5.20E-09±4.21E-09	R		4	3.78E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.46E-07±4.42E-09				4.17E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.12E-07±5.61E-09				7.81E-10	µCi/mL	GP	RADA-008
2	Radium-228	4.41E-08±2.79E-09	J	L	I	1.61E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.92E-07±8.32E-09			5	1.12E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.49E-07±1.62E-08				1.99E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.45E-09±2.97E-09	R		4	3.37E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.99E-10±1.48E-10	J	I		2.02E-10	µCi/mL	GP	RADA-012
0	Thorium-230	8.86E-11±8.81E-11	U			1.49E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.52E-11±6.04E-11	U			8.79E-11	µCi/mL	GP	RADA-012
2	Tritium	6.09E-03±1.58E-09			5	5.23E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.83E-07±2.24E-08				2.36E-09	µCi/mL	GP	RADA-011
2	Uranium-235	5.81E-08±8.75E-09				2.37E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.85E-07±2.52E-08				2.57E-09	µCi/mL	GP	RADA-011

## WELL FBI 7D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
Depth to water: 68.95 ft (21.02 m) below TOC  
Water elevation: Not available  
pH: 3.7  
Sp. conductance: 132 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 12 gal

Time: 15:44  
Water temperature: 22.2°C  
Air temperature: 33.1°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	49,000				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	604				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.46	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.76				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	11,800				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.49	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	164				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	172				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	2,230				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	34.9				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,290				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	4,060				10.0	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FBI 7D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Mercury, total recoverable	0.136	J	I		0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	57.6				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	128,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	212				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,240				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	72,400				100	µg/L	GE	EPA6010B
0	Sulfate	1,130				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<6.15	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	100				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	115				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.68E-08±1.56E-08	J	I		1.19E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.35E-08±2.32E-09				1.76E-09	µCi/mL	GP	RADA-011
0	Americium-243	7.11E-10±5.43E-09	U			2.92E-09	µCi/mL	GP	RADA-011
0	Antimony-125	5.78E-09±5.31E-09	U			9.81E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.50E-09±3.06E-09	U			4.63E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.08E-07±1.27E-08				5.99E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.34E-08±1.55E-08	J	I		2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.68E-09±1.86E-09	U			3.06E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-3.52E-10±2.29E-09	U			3.42E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.60E-09±2.15E-09	U			4.23E-09	µCi/mL	GP	RADA-013
0	Curium-242	-7.91E-11±4.73E-10	U			1.47E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.70E-08±2.60E-09				2.00E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.30E-09±7.63E-10	J	I		7.35E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.83E-09±6.74E-09	U			1.09E-08	µCi/mL	GP	RADA-013
0	Europium-154	-4.17E-10±6.83E-09	U			1.05E-08	µCi/mL	GP	RADA-013
0	Europium-155	3.95E-09±8.43E-09	U			1.47E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.10E-07±2.59E-08			5	2.24E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	9.85E-08±6.95E-09				5.38E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.00E-08±6.08E-09				6.30E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.25E-07±1.41E-08				8.06E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.82E-10±1.22E-10	J	I		1.44E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.14E-06±1.10E-08				3.54E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-3.77E-11±6.61E-11	U			2.75E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.29E-11±1.79E-11	U			1.67E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.07E-08±2.28E-08	U			4.33E-08	µCi/mL	GP	RADA-013
0	Promethium-146	5.96E-10±2.44E-09	U			4.34E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.27E-07±5.33E-09				6.43E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.69E-08±3.64E-09				4.76E-10	µCi/mL	GP	RADA-008
2	Radium-228	4.60E-08±2.36E-09	J	K	C	1.40E-09	µCi/mL	GP	RADA-009
2	Strontium-90	4.79E-07±9.87E-09				1.51E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.54E-07±1.81E-08				2.07E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.19E-09±4.19E-09	U			5.14E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.45E-10±1.18E-10	J	I		1.65E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.03E-11±6.55E-11	U			1.11E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.15E-11±3.46E-11	U			6.54E-11	µCi/mL	GP	RADA-012
2	Tritium	5.74E-03±1.45E-09			5	4.70E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.87E-07±1.23E-08				1.19E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.60E-08±3.75E-09				7.04E-10	µCi/mL	GP	RADA-011
2	Uranium-238	5.10E-07±1.41E-08				8.67E-10	µCi/mL	GP	RADA-011

## WELL FBI 7D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 69.64 ft (21.23 m) below TOC  
Water elevation: Not available  
pH: 3.7  
Sp. conductance: 1,382 µS/cm  
Turbidity: 0 NTU  
No water was evacuated from the well prior to sampling.

Time: 13:50  
Water temperature: 22.1°C  
Air temperature: 30.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	43,600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	540				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.18	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.04				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	9,770				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.44	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	141				5.00	µg/L	GE	EPA6010B

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Well FBI 7D collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Copper, total recoverable	77.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,780				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	4.35	J	I		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,790				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3,490				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.197	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	47.7				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	139,000				1,250	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	136				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,050				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	70,500				100	µg/L	GE	EPA6010B
0	Sulfate	1,120				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<30.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	101				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.86E-08±2.17E-08	U			4.19E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.28E-08±1.43E-09				1.24E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.47E-09±1.74E-09	U			6.09E-11	µCi/mL	GP	RADA-011
0	Antimony-125	-5.18E-09±1.21E-08	U			2.01E-08	µCi/mL	GP	RADA-013
0	Barium-133	3.89E-09±5.73E-09	U			9.37E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.70E-08±2.00E-08				1.46E-08	µCi/mL	GP	RADA-013
0	Carbon-14	3.56E-08±2.85E-08	U			4.72E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.91E-09±4.48E-09	U			6.47E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-8.71E-10±4.44E-09	U			7.92E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.13E-09±4.05E-09	U			7.93E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.64E-11±7.18E-11	U			1.39E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.48E-08±1.52E-09				1.24E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.05E-09±4.40E-10	R		4	1.44E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.39E-09±1.24E-08	U			2.17E-08	µCi/mL	GP	RADA-013
0	Europium-154	-9.96E-09±1.30E-08	U			2.09E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.99E-09±1.44E-08	U			2.56E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.23E-06±1.81E-07				7.10E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	9.75E-08±1.51E-08				7.38E-09	µCi/mL	GP	RADA-006
0	Lead-212	6.55E-09±1.16E-08	U	V		1.25E-08	µCi/mL	GP	RADA-013
0	Lead-214	8.11E-08±1.80E-08				1.53E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	2.07E-10±1.81E-10	U			2.59E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.61E-06±1.67E-07				1.54E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.13E-11±8.30E-11	U			2.18E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-9.89E-12±1.94E-11	U			2.18E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.54E-08±6.55E-08	U			7.81E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.41E-09±5.62E-09	U			9.42E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.80E-08±3.56E-09				3.57E-10	µCi/mL	GP	RADA-010
2	Radium-226	9.80E-08±4.28E-09	J	L	C	5.81E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.07E-08±1.42E-09				9.18E-10	µCi/mL	GP	RADA-009
2	Strontium-90	4.12E-07±6.61E-09			5	9.60E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.03E-07±1.47E-08				1.85E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.41E-09±4.82E-09	U			9.69E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.05E-09±3.43E-10				2.97E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.33E-10±1.30E-10	U			1.83E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-1.41E-11±1.95E-11	U			1.83E-10	µCi/mL	GP	RADA-012
2	Tritium	4.87E-03±9.03E-05			5	4.37E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	4.17E-07±1.58E-08				1.65E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.61E-08±4.85E-09				3.02E-09	µCi/mL	GP	RADA-011
2	Uranium-238	5.15E-07±1.76E-08				1.77E-09	µCi/mL	GP	RADA-011

## WELL FBI 8D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
Depth to water: 72.25 ft (22.02 m) below TOC  
Water elevation: Not available  
pH: 4.3  
Sp. conductance: 630 µS/cm  
Turbidity: 2 NTU  
Water evacuated from the well prior to sampling: 8 gal

Time: 9:17  
Water temperature: 22.2°C  
Air temperature: 29.2°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	30,500	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	31,500	J	L	I	50.0	µg/L	GE	EPA6010B

B-98

Second Quarter 2001



Well FBI 8D collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	368				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	1.82	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.89	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.980	U			0.980	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Cadmium, total recoverable	4.01	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	10,400				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	10,500				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	844				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	3.96	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	77.5				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	80.0				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	43.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	44.2				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,150				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,220				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	32.4				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	33.6				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	91,000				2,500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	36,700	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	38,000	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,220				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	0.451	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	30.0	J	IL	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Trichloroethylene	3.22	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	73.6				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	74.8				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.42E-08±1.31E-08	R		4	1.84E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.01E-08±5.01E-09				2.22E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-3.05E-09±5.06E-09	U			8.55E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	9.04E-09±1.40E-08				2.58E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	1.30E-08±8.53E-09	R		4	9.33E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.30E-08±2.91E-08	J	I		4.72E-08	µCi/mL	GP	RADA-003
0	Cesium-134	7.57E-10±2.34E-09	U			2.77E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.70E-09±5.73E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	7.32E-10±1.89E-09	U			3.59E-09	µCi/mL	GP	RADA-013
0	Curium-242	6.53E-11±5.05E-10	U			1.62E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	2.39E-08±5.61E-09				2.44E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	6.97E-10±8.88E-10	U			1.33E-09	µCi/mL	GP	RADA-011
0	Europium-152	-4.81E-10±5.31E-09	U			9.37E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FBI 8D collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Europium-154	5.21E-11±4.99E-09	U			9.10E-09	µCi/mL	GP	RADA-013
0	Europium-155	4.27E-09±7.22E-09	U			1.27E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.05E-07±3.60E-08			5	5.88E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.58E-08±6.29E-09				1.78E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.52E-09±7.79E-09	U			7.79E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	8.78E-07±2.99E-08				7.67E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.24E-11±2.49E-11	U			2.73E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.82E-11±1.37E-10	U	V		3.20E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.08E-08±2.01E-08				4.20E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.57E-09±3.77E-09	R		4	4.27E-09	µCi/mL	GP	RADA-013
2	Radium-226	2.88E-08±2.28E-09				6.07E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.25E-08±1.51E-09				1.12E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.26E-07±5.54E-09	J	K	I	8.43E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.30E-08±1.40E-08				2.22E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.04E-09±3.34E-09	U			4.03E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.03E-10±9.37E-11	J	I		7.54E-11	µCi/mL	GP	RADA-012
0	Thorium-230	8.49E-11±5.54E-11	J	I		2.55E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-8.49E-14±2.09E-11	U			6.52E-11	µCi/mL	GP	RADA-012
2	Tritium	3.14E-03±6.11E-05				5.81E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.24E-07±4.90E-08				2.14E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.56E-08±6.60E-09				1.14E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.61E-07±7.84E-08				1.20E-09	µCi/mL	GP	RADA-011

## WELL FBI 8D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 72.05 ft (21.96 m) below TOC  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 795 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 21 gal

Time: 11:31  
 Water temperature: 21.7°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	31,700				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	366				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.70	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.68	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,480				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.70	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	75.4				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	82.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,430				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	9.29				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,080				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,260				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	29.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	84,100				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	131				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	829				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<4.61	JU		4	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	40,500				100	µg/L	GE	EPA6010B
0	Sulfate	7,400				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	72.5				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.46E-08±1.28E-08	R		4	1.94E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.30E-08±1.94E-09				1.28E-10	µCi/mL	GP	RADA-011
0	Americium-243	3.44E-10±1.66E-09	U			1.77E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.09E-09±5.11E-09	U			8.33E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.54E-09±2.80E-09	U			4.42E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.32E-08±6.26E-09	J	I		6.13E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.09E-08±1.43E-08	J	I		2.29E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.13E-10±2.00E-09	U			3.15E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-7.78E-10±1.95E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.31E-09±3.35E-09	U			3.25E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.37E-10	µCi/mL	GP	RADA-011



Well FBI 8D collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Curium-243/244	2.96E-08±2.19E-09				1.28E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.04E-09±4.44E-10				1.48E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.80E-11±5.74E-09	U			9.83E-09	µCi/mL	GP	RADA-013
0	Europium-154	6.76E-10±5.52E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Europium-155	-4.55E-09±7.96E-09	U			1.36E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.00E-07±2.02E-08			5	2.16E-09	µCi/mL	GP	EPA900.0
0	Iodine-129	4.86E-08±7.44E-09				2.86E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.37E-10±4.71E-09	U			6.80E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.44E-08±8.10E-09		I		7.33E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.56E-10±9.28E-11	J	I		1.11E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	8.08E-07±8.85E-09				3.22E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-3.65E-11±2.03E-10	U			6.02E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.74E-11±1.33E-10	U			3.45E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	1.39E-10±1.84E-10	U			3.45E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.96E-08±2.07E-08				4.42E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-3.01E-10±2.58E-09	U			4.37E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.91E-08±1.92E-09				3.65E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.25E-08±1.37E-09				5.27E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.37E-08±1.56E-09				1.19E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.06E-07±4.26E-09	J	L	I	9.25E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.59E-08±1.32E-08				2.00E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.31E-09±2.11E-09	U			4.17E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.07E-10±1.78E-10	J	I		2.62E-10	µCi/mL	GP	RADA-012
0	Thorium-230	9.07E-11±7.42E-11	U			9.96E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.30E-11±2.54E-11	U			3.89E-11	µCi/mL	GP	RADA-012
2	Tritium	2.82E-03±7.98E-06			5	3.98E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.71E-07±1.92E-08				2.67E-09	µCi/mL	GP	RADA-011
2	Uranium-235	3.90E-08±7.37E-09				3.35E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.23E-07±2.40E-08				2.20E-09	µCi/mL	GP	RADA-011

## WELL FBI 8D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 72.1 ft (21.98 m) below TOC  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 580 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 12:44  
 Water temperature: 23°C  
 Air temperature: 32.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	23,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	266				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.11	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.17	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,740				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.99	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	54.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	94.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,710				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<20.6	U	V		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,500				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,690				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	23.3				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	53,600				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	117				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	579				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	27,800				100	µg/L	GE	EPA6010B
0	Sulfate	4,510				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	110				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	68.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.99E-08±1.16E-08	R		4	1.80E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.95E-08±2.42E-09				1.46E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.38E-09±4.85E-09	U			1.39E-09	µCi/mL	GP	RADA-011
0	Antimony-125	2.48E-09±5.05E-09	U			9.35E-09	µCi/mL	GP	RADA-013

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Well FBI 8D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Barium-133	9.85E-10±2.73E-09	U			4.23E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.54E-08±8.74E-09				6.03E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.63E-08±1.48E-08	U			2.46E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.12E-10±1.90E-09	U			3.01E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.10E-09±1.93E-09	U			3.59E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.82E-10±2.14E-09	U			4.00E-09	µCi/mL	GP	RADA-013
0	Curium-242	6.10E-10±4.57E-10	U			9.75E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.29E-08±2.64E-09				1.73E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	6.82E-10±5.95E-10	U			9.14E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.32E-09±6.24E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-154	3.34E-09±5.87E-09	U			1.15E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.63E-09±7.49E-09	U			1.32E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.92E-07±1.76E-08			5	2.75E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.33E-08±7.02E-09				3.03E-09	µCi/mL	GP	RADA-006
0	Lead-212	8.00E-09±5.31E-09	J	I		5.62E-09	µCi/mL	GP	RADA-013
0	Lead-214	8.26E-08±1.13E-08				6.79E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	-1.65E-10±2.51E-10	U			5.14E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.35E-07±8.63E-09				3.34E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.44E-11±1.41E-10	U			3.60E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.54E-11±6.14E-11	U			1.85E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.67E-08±2.19E-08	U			4.51E-08	µCi/mL	GP	RADA-013
0	Promethium-146	5.70E-10±2.42E-09	U			4.39E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.59E-08±2.49E-09				5.02E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.31E-08±1.50E-09				5.23E-10	µCi/mL	GP	RADA-008
2	Radium-226	1.26E-08±1.59E-09				7.06E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.37E-08±1.65E-09	J	K	C	1.22E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.75E-07±6.36E-08				1.60E-09	µCi/mL	GP	RADA-004
0	Technetium-99	4.54E-08±1.24E-08	J	I		2.15E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.82E-09±3.64E-09	J	I		3.56E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.01E-10±8.88E-11	J	I		9.07E-11	µCi/mL	GP	RADA-012
0	Thorium-230	1.09E-10±6.17E-11	J	I		2.73E-11	µCi/mL	GP	RADA-012
0	Thorium-232	<0.00E+00	U			2.73E-11	µCi/mL	GP	RADA-012
2	Tritium	2.21E-03±5.77E-05			5	2.75E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.29E-07±8.17E-09				5.28E-10	µCi/mL	GP	RADA-011
2	Uranium-235	2.55E-08±2.75E-09				7.50E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.64E-07±1.03E-08				7.48E-10	µCi/mL	GP	RADA-011

## WELL FBI 8D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: 73.3 ft (22.34 m) below TOC  
 Water elevation: Not available  
 pH: 3.6  
 Sp. conductance: 427 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 8:48  
 Water temperature: 20.4°C  
 Air temperature: 22°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12,500				50.0	µg/L	GE	EPA6010B
2	Antimony, total recoverable	10.0				10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	171				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.237	JU		4	5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.58	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,980				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.04	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	29.8				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	19.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	4,250				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	837				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	931				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	18.6				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	44,300				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	101				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	419				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<1.76	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	18,000				100	µg/L	GE	EPA6010B
0	Sulfate	5,390				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B

B-100

Second Quarter 2001



Well FBI 8D collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	36.6				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.67E-08±1.54E-08	U			1.86E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.04E-08±7.92E-10				4.72E-11	µCi/mL	GP	RADA-011
0	Antimony-125	3.90E-09±5.92E-09	U			1.07E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.98E-09±3.46E-09	U			5.05E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	8.13E-09±8.50E-09	U			1.06E-08	µCi/mL	GP	RADA-013
0	Carbon-14	5.78E-09±2.77E-08	U			4.77E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.43E-09±2.79E-09	U			3.97E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-4.91E-10±2.43E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.77E-11±2.66E-09	U			4.77E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			5.02E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	1.31E-08±8.89E-10				8.41E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	5.30E-10±1.93E-10	R		4	5.48E-11	µCi/mL	GP	RADA-011
0	Europium-152	6.22E-09±6.56E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.82E-09±6.45E-09	U			1.22E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.15E-08±1.11E-08	U			1.37E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.94E-07±1.58E-08			5	2.19E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	2.86E-07±1.56E-08			5	2.22E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	3.10E-08±5.60E-09			5	2.76E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.05E-08±4.49E-09	R		4	8.17E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.24E-09±8.22E-09	U			9.40E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.49E-10±4.02E-10	JU	L	C	9.61E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.24E-07±1.29E-08				3.42E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.16E-07±1.28E-08				4.21E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.50E-11±4.89E-11	U			7.49E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-8.63E-12±1.20E-11	U			1.12E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.51E-09±4.57E-08	U			3.46E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.35E-10±2.95E-09	U			5.17E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.11E-08±1.24E-09				3.81E-10	µCi/mL	GP	RADA-010
2	Radium-226	8.61E-09±1.25E-09	J	L	C	5.47E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.75E-08±1.14E-09				8.84E-10	µCi/mL	GP	RADA-009
2	Strontium-90	8.14E-08±4.26E-09				1.47E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.75E-08±1.02E-08	J	I		1.90E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.34E-09±5.61E-09	U			5.22E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.07E-10±9.69E-11	J	I		1.32E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.17E-11±3.08E-11	U			5.48E-11	µCi/mL	GP	RADA-012
0	Thorium-232	8.70E-12±1.70E-11	U			2.61E-11	µCi/mL	GP	RADA-012
2	Tritium	1.45E-03±2.83E-05			5	2.25E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.38E-07±7.73E-09				7.80E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.65E-08±2.68E-09				7.01E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.66E-07±1.07E-08				8.48E-10	µCi/mL	GP	RADA-011

## WELL FBI 9D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 65.66 ft (20.01 m) below TOC  
 Water elevation: Not available  
 pH: 3.7  
 Sp. conductance: 1,609 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 13:52  
 Water temperature: 24.5°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	67.700	J	L	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	69.600	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	370				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Beryllium, total recoverable	8.31				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	8.55				5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.971	U			0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	6.71				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	12,300				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	12,700				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	1,490				100	µg/L	GE	EPA9056

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Well FBI 9D collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	7.59				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	433				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	445				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	88.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	92.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	3.53				5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,850				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,970				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0878	J	I		0.200	µg/L	GE	EPA7470A
2	Nickel, total recoverable	119				5.00	µg/L	GE	EPA6010B
2	Nickel, total recoverable	124				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	195,000				5,000	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	84,300	J	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	86,600	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	889				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<5.75	JU		4	10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<50.0	JU	L	I	50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	12.9	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	1.81	J	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	192				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	207				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.32E-08±1.11E-08				7.61E-09	µCi/mL	GP	RADA-013
0	Americium-241	2.08E-09±1.28E-09	J	I		5.67E-10	µCi/mL	GP	RADA-011
0	Americium-241	2.21E-09±1.40E-09	J	I		1.41E-09	µCi/mL	GP	RADA-011
0	Antimony-125	1.35E-09±3.80E-09	U			6.41E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.26E-08±1.99E-08	U			1.60E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	8.98E-08±1.25E-08	U			3.93E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.18E-07±3.12E-08				4.70E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.11E-10±1.32E-09	U			1.97E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.53E-09±4.28E-09	R		4	2.30E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.21E-09±2.19E-09	U			2.26E-09	µCi/mL	GP	RADA-013
0	Curium-242	2.05E-10±4.10E-10	U			6.14E-10	µCi/mL	GP	RADA-011
0	Curium-242	1.99E-10±6.91E-10	U			1.52E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	3.22E-09±1.70E-09	J	I		1.45E-09	µCi/mL	GP	RADA-011
1	Curium-243/244	5.34E-09±2.09E-09				5.52E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	8.77E-10±8.84E-10	U			6.58E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	4.27E-10±6.06E-10	U			6.40E-10	µCi/mL	GP	RADA-011
0	Europium-152	6.65E-10±4.22E-09	U			7.09E-09	µCi/mL	GP	RADA-013
0	Europium-154	1.99E-09±3.84E-09	U			7.15E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.75E-09±5.52E-09	U			9.77E-09	µCi/mL	GP	RADA-013
2	Gross alpha	3.07E-07±3.12E-08			5	9.67E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	1.30E-07±1.61E-08				2.87E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.89E-09±4.13E-09	U			4.28E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.55E-06±4.08E-08				5.85E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	4.34E-11±1.94E-10	U			4.16E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	5.98E-10±8.42E-10	U			1.48E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	0.00E+00±2.00E-09	U			4.15E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.37E-10±4.75E-10	U			7.11E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.22E-08±1.53E-08	U			2.94E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.54E-11±1.74E-09	U			2.89E-09	µCi/mL	GP	RADA-013



Well FBI 9D collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Radium-226	3.86E-08±2.62E-09				5.51E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.93E-08±1.68E-09				1.15E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.55E-07±7.98E-09	J	K	I	9.25E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.58E-07±1.84E-08				2.06E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.04E-09±2.68E-09	U			2.65E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.55E-10±1.10E-10	J	I		1.17E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.39E-10±6.90E-11	J	I		2.32E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-7.79E-12±1.11E-11	U			5.92E-11	µCi/mL	GP	RADA-012
2	Tritium	6.92E-03±1.29E-09				8.67E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	9.28E-08±1.49E-08				7.51E-10	GP	GP	RADA-011
1	Uranium-235	9.73E-09±2.11E-09				5.16E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.06E-07±1.69E-08				5.14E-10	µCi/mL	GP	RADA-011

## WELL FBI 9D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
Depth to water: 65.46 ft (19.95 m) below TOC  
Water elevation: Not available  
pH: 3.8  
Sp. conductance: 130 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 25 gal

Time: 13:40  
Water temperature: 22.6°C  
Air temperature: 28.7°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	47,200				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	305				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	6.01				5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	4.54	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	8,740				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	297				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	162				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,790				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	44.5				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,720				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	6,400				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	79.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	134,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	106				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,040				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	71,600				100	µg/L	GE	EPA6010B
0	Sulfate	626				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	141				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.03E-08±2.88E-08	R		4	2.29E-08	µCi/mL	GP	RADA-013
0	Americium-241	2.50E-09±5.95E-10				5.85E-10	µCi/mL	GP	RADA-011
0	Americium-243	9.41E-10±1.40E-09	U			7.22E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.18E-09±6.77E-09	U			1.10E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.87E-09±3.53E-09	U			4.97E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.90E-08±1.23E-08				7.96E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.88E-08±1.57E-08				2.31E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.68E-09±2.45E-09	U			4.17E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-7.20E-10±2.46E-09	U			4.26E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.40E-09±2.69E-09	U			4.67E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.90E-11±1.05E-10	U			2.69E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	5.00E-09±7.92E-10				5.86E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.55E-10±2.38E-10	J	I		2.88E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.15E-09±6.85E-09	U			1.13E-08	µCi/mL	GP	RADA-013
0	Europium-154	-5.43E-09±7.74E-09	U			1.25E-08	µCi/mL	GP	RADA-013
0	Europium-155	5.72E-09±7.63E-09	U			1.34E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.01E-07±1.76E-08			5	3.33E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	9.28E-08±1.28E-08				4.29E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.75E-09±7.40E-09	U			6.19E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.73E-08±1.06E-08				8.45E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.05E-10±9.91E-11	J	I		9.46E-11	µCi/mL	GP	RADA-032

ESH-EMS-20010585

Well FBI 9D collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nonvolatile beta	1.15E-06±7.38E-09				3.47E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-3.08E-11±1.71E-10	U			5.08E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.00E-11±7.97E-11	U			2.39E-10	µCi/mL	GP	RADA-011
0	Plutonium-244	7.70E-11±1.07E-10	U			1.15E-10	µCi/mL	GP	RADA-011
0	Potassium-40	7.34E-09±4.43E-08	U			4.58E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.08E-09±2.89E-09	U			5.02E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.27E-07±4.00E-09				2.57E-10	µCi/mL	GP	RADA-010
2	Radium-226	3.99E-08±2.57E-09				4.62E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.11E-08±1.67E-09				1.46E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.11E-07±5.25E-09	J	L	I	9.38E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.33E-07±1.86E-08				2.34E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.05E-09±4.92E-09	U			5.51E-09	µCi/mL	GP	RADA-013
0	Thorium-228	3.22E-10±1.44E-10	J	I		2.06E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.45E-10±8.33E-11	J	I		8.56E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-5.64E-12±1.10E-11	U			7.04E-11	µCi/mL	GP	RADA-012
2	Tritium	4.84E-03±1.05E-05			5	4.02E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.07E-07±8.23E-09				1.24E-09	µCi/mL	GP	RADA-011
0	Uranium-235	7.22E-09±2.15E-09				8.71E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.36E-07±9.28E-09				1.02E-09	µCi/mL	GP	RADA-011

## WELL FBI 9D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
Depth to water: 67.51 ft (20.58 m) below TOC  
Water elevation: Not available  
pH: 3.8  
Sp. conductance: 920 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 10 gal

Time: 14:45  
Water temperature: 22.3°C  
Air temperature: 33°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	37,600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	259				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.22	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.59	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	6,160				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	235				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	214				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,820				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	64.0				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,290				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	5,190				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.127	J	I		0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	64.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	97,700				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	95.0				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	810				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<25.0	U			25.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	59,900				100	µg/L	GE	EPA6010B
0	Sulfate	691				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<4.30	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	90.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	133				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.03E-08±1.57E-08	R		4	1.87E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-1.07E-09±5.70E-09	U			9.93E-09	µCi/mL	GP	RADA-013
0	Barium-133	-3.34E-09±3.10E-09	U			4.48E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.77E-07±1.33E-08				6.22E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.76E-08±1.53E-08	J	I		2.43E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.23E-10±2.08E-09	U			3.09E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.71E-10±2.44E-09	U			3.81E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.90E-09±2.32E-09	U			4.49E-09	µCi/mL	GP	RADA-013
0	Europium-152	-3.09E-09±6.40E-09	U			1.11E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.47E-09±5.88E-09	U			1.09E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.43E-09±8.44E-09	U			1.47E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.93E-07±1.60E-08			5	2.28E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	7.84E-08±7.08E-09				6.25E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.51E-08±6.53E-09	J	I		6.54E-09	µCi/mL	GP	RADA-013

B-102

Second Quarter 2001



Well FBI 9D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead-214	1.81E-07±1.25E-08				7.96E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.76E-10±1.17E-10	J	I		1.28E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.92E-07±6.66E-09				3.25E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.56E-11±8.88E-11	U			1.67E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.52E-11±2.10E-11	U			1.97E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.17E-09±3.01E-08	U			4.02E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.90E-09±2.70E-09	U			4.93E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.64E-08±4.60E-09				6.46E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.25E-08±3.08E-09				4.73E-10	µCi/mL	GP	RADA-008
2	Radium-228		J	K	C	1.10E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.57E-07±1.07E-08				2.20E-09	µCi/mL	GP	RADA-004
0	Technetium-99	9.41E-08±1.50E-08				2.06E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.86E-09±3.38E-09	U			3.93E-09	µCi/mL	GP	RADA-013
0	Thorium-228			I		1.27E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.85E-11±5.38E-11	J	I		5.88E-11	µCi/mL	GP	RADA-012
0	Thorium-232	8.46E-12±1.66E-11	U			2.54E-11	µCi/mL	GP	RADA-012
2	Tritium	3.91E-03±1.02E-09			5	3.95E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	8.78E-08±5.44E-09				1.02E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.16E-08±2.02E-09				1.08E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.23E-07±6.45E-09				1.61E-09	µCi/mL	GP	RADA-011

## WELL FBI 9D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: 69.03 ft (21.04 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 682 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 10:33  
 Water temperature: 21.4°C  
 Air temperature: 32.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,700				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.20				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	218				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.91	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	2.86	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	5,430				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.57	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	130				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	36.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,330				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,690				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,770				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	33.7				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	72,100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	537				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	47,700				100	µg/L	GE	EPA6010B
0	Sulfate	993				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<20.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	73.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.83E-08±2.35E-08	R		4	2.82E-08	µCi/mL	GP	RADA-013
1	Americium-241	6.18E-09±2.14E-09				5.80E-10	µCi/mL	GP	RADA-011
1	Americium-243	4.00E-09±3.91E-09	J	I		9.05E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-9.06E-10±9.41E-09	U			1.65E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.05E-08±5.26E-09	U			7.62E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.40E-08±1.28E-08	J	I		1.06E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.22E-09±2.77E-08	U			4.76E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.52E-09±4.74E-09	U			6.11E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.28E-09±7.75E-09	R		4	6.11E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.56E-09±4.36E-09	U			8.90E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			6.49E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	6.97E-09±2.26E-09				5.81E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	-5.38E-11±1.06E-10	U			1.18E-09	µCi/mL	GP	RADA-011

ESH-EMS-20010585

Well FBI 9D collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Europium-152	-8.73E-09±1.02E-08	U			1.69E-08	µCi/mL	GP	RADA-013
0	Europium-154	7.16E-09±1.32E-08	U			2.20E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.81E-10±1.24E-08	U			2.10E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.57E-07±3.69E-08				2.60E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	5.76E-08±4.32E-09				3.26E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.39E-08±6.48E-09	R		4	1.24E-08	µCi/mL	GP	RADA-013
0	Lead-214	2.13E-08±1.31E-08	J	I		1.32E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	5.54E-11±8.84E-11	U			1.66E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.03E-07±4.12E-08				5.30E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.96E-11±7.75E-11	U			1.19E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			1.19E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.76E-08±4.46E-08	U			9.47E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-5.96E-10±4.23E-09	U			7.42E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	5.39E-08±2.62E-09				2.86E-10	µCi/mL	GP	RADA-010
2	Radium-226	4.16E-08±2.75E-09	J	L	C	6.59E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.76E-08±1.19E-09				1.08E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.48E-07±4.49E-09			5	8.35E-10	µCi/mL	GP	RADA-004
0	Technetium-99	5.81E-08±1.19E-08				1.81E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.25E-09±6.04E-09	U			5.10E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.56E-10±1.81E-10	U			3.05E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.12E-11±1.28E-10	U			3.11E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.28E-11±5.08E-11	U			1.53E-10	µCi/mL	GP	RADA-012
2	Tritium	2.63E-03±4.99E-05			5	3.06E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.00E-07±5.39E-09				2.26E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.20E-08±1.87E-09				6.47E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.54E-07±6.66E-09				7.10E-10	µCi/mL	GP	RADA-011

## WELL FBI 10D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 70.41 ft (21.46 m) below TOC  
 Water elevation: Not available  
 pH: 4.5  
 Sp. conductance: 567 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 9:32  
 Water temperature: 23.3°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	21,600				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	20,600				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	444				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Beryllium, dissolved	4.42	J	I		5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.22	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Cadmium, total recoverable	3.48	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	19,000				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	18,700				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	3,410				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	7.49				5.00	µg/L	GE	EPA6010B
1	Cobalt, dissolved	85.2				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	79.4				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	47.1				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	45.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

B-103

Second Quarter 2001



Well FBI 10D collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	2,920				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,760				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	JU	Q		0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	40.6				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	40.4				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	80,500				2,500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	57,400				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	57,800				100	µg/L	GE	EPA6010B
0	Sulfate	3,440				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<0.271	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<50.0	JU	L	C	50.0	µg/L	GE	EPA9056
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	11.5	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	1.21	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	1.63	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	85.9				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	87.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.13E-08±1.29E-08	R		4	2.01E-08	µCi/mL	GP	RADA-013
1	Americium-241	5.29E-09±1.82E-09	J	I		1.97E-09	µCi/mL	GP	RADA-011
0	Antimony-125	3.28E-09±6.75E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	-9.15E-09±1.86E-08	U			3.07E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.37E-08±7.83E-09	U			7.87E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.06E-08±1.41E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.41E-09±2.24E-09	U			3.67E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.21E-09±4.68E-09	R		4	3.66E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-8.76E-10±2.74E-09	U			4.07E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.19E-10±5.26E-10	U			1.16E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	9.21E-09±2.37E-09	U			2.02E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.19E-09±7.96E-10	J	I		8.04E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.76E-10±6.25E-09	U			1.10E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.97E-09±4.81E-09	U			9.71E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.21E-09±9.12E-09	U			1.54E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.26E-07±3.12E-08			5	7.72E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	3.31E-08±5.09E-09	U			1.83E-09	µCi/mL	GP	RADA-006
0	Lead-212	6.67E-09±8.97E-09	U			6.85E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	6.47E-07±2.58E-08	U			8.14E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.13E-11±1.03E-10	U			1.54E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.02E-10±1.30E-10	U		V	1.95E-10	µCi/mL	GP	RADA-011
0	Potassium-40	6.84E-08±2.69E-08	R		4	5.93E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.65E-09±2.64E-09	U			4.98E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.67E-09±5.20E-10	U			4.00E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.23E-08±1.51E-09	U			1.11E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.93E-07±4.52E-09	J	K	I	7.99E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.48E-08±1.33E-08	U			2.02E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.78E-09±2.58E-09	J	I		3.66E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.45E-10±1.08E-10	U			1.76E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.59E-11±3.71E-11	U			5.04E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-4.03E-12±8.09E-12	U			5.04E-11	µCi/mL	GP	RADA-012
2	Tritium	3.16E-03±6.20E-05				5.80E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.01E-07±4.18E-08				1.17E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.16E-08±5.44E-09				6.31E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.01E-07±6.21E-08				8.28E-10	µCi/mL	GP	RADA-011

## WELL FBI 10D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 70.3 ft (21.43 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 839 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 10:09  
 Water temperature: 22.4°C  
 Air temperature: 33°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	33,400				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	30,600				322	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	544				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	497				8.30	µg/L	WA	EPA6010B
2	Beryllium, total recoverable	5.82				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	5.40				0.900	µg/L	WA	EPA6010B
2	Cadmium, total recoverable	5.19				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.00				4.10	µg/L	WA	EPA6010B
0	Calcium, total recoverable	15,300				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	13,600				296	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.30	J	I		11.0	µg/L	WA	EPA6010B
2	Cobalt, total recoverable	128				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	116				11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	86.4				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	76.0				5.50	µg/L	WA	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
2	Iron, total recoverable	1,760				50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	1,660				192	µg/L	WA	EPA6010B
2	Lead, total recoverable	53.3				5.00	µg/L	GE	EPA6010B
1	Lead, total recoverable	40.2				24.0	µg/L	WA	EPA6010B
0	Magnesium, total recoverable	4,030				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,470				170	µg/L	WA	EPA6010B
2	Manganese, total recoverable	3,280				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3,020				1.50	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.170	J	I		0.300	µg/L	WA	EPA7470A
1	Nickel, total recoverable	50.6				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	46.9				4.10	µg/L	WA	EPA6010B
2	Nitrate as nitrogen	99,800				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	506,000	J	Q		25,000	µg/L	WA	EPA9056
2	Nitrate as nitrogen	508,000	J	Q		25,000	µg/L	WA	EPA9056
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<1,700	U			1,700	µg/L	WA	EPA9056
0	Nitrite as nitrogen	<1,700	U			1,700	µg/L	WA	EPA9056
0	Potassium, total recoverable	966				100	µg/L	GE	EPA6010B
0	Potassium, total recoverable	996				112	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sodium, total recoverable	68,100				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	50,700				214	µg/L	WA	EPA6010B
0	Sulfate	1,740				200	µg/L	GE	EPA300.0
0	Sulfate	5,960				1,600	µg/L	WA	EPA300.0
0	Sulfate	5,620				1,600	µg/L	WA	EPA300.0
0	Thallium, total recoverable	<4.68	JU		4	10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<46.0	U			46.0	µg/L	WA	EPA6010B
0	Total phosphates (as P)	30.0	J	I		50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	21.0	J	I		101	µg/L	WA	EPA365.2
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.60	U			5.60	µg/L	WA	EPA6010B
0	Zinc, total recoverable	103				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	94.7				58.0	µg/L	WA	EPA6010B
0	Actinium-228	1.30E-08±1.18E-08	U			1.58E-08	µCi/mL	GP	RADA-013
0	Actinium-228	2.43E-08±1.14E-08	J	I		9.82E-09	µCi/mL	GP	RADA-013
0	Actinium-228	1.30E-08±1.18E-08	U			1.58E-08	µCi/mL	GP	RADA-013
0	Actinium-228	3.30E-08±1.81E-08	J	I		2.19E-08	µCi/mL	SC	SCA-337
2	Americium-241	6.59E-09±9.02E-10				9.65E-11	µCi/mL	GP	RADA-011
2	Americium-241	6.66E-09±2.17E-09				4.01E-10	µCi/mL	SC	SCA-330
0	Americium-243	5.85E-10±1.31E-09	U			7.99E-11	µCi/mL	GP	RADA-011



Well FBI 10D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
00	Antimony-125	2.05E-10±4.78E-09	U			8.37E-09	µCi/mL	GP	RADA-013
0	Antimony-125	4.85E-09±5.23E-09	U			8.95E-09	µCi/mL	GP	RADA-013
0	Antimony-125	2.05E-10±4.78E-09	U			8.37E-09	µCi/mL	GP	RADA-013
0	Antimony-125	5.13E-09±5.73E-09	U			1.04E-08	µCi/mL	SC	SCA-337
0	Barium-133	3.85E-10±2.58E-09	U			4.04E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.96E-09±2.82E-09	U			4.45E-09	µCi/mL	GP	RADA-013
0	Barium-133	-4.64E-10±3.29E-09	U			4.98E-09	µCi/mL	SC	SCA-337
0	Bismuth-212	1.57E-08±1.50E-08	U			2.74E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	6.11E-08±1.15E-08	U			5.20E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.82E-08±1.00E-08	U			5.85E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.04E-08±1.03E-08	U			1.53E-08	µCi/mL	SC	SCA-337
0	Carbon-14	1.37E-08±1.52E-08	U			2.54E-08	µCi/mL	GP	RADA-003
0	Carbon-14	1.21E-08±4.66E-09	J	I		7.43E-09	µCi/mL	SC	SCA-320
0	Cerium-144	1.47E-09±1.39E-08	U			2.36E-08	µCi/mL	GP	RADA-013
0	Cesium-134	-1.20E-09±1.81E-09	U			2.54E-09	µCi/mL	GP	RADA-013
0	Cesium-134	7.05E-10±1.82E-09	U			2.96E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-1.20E-09±1.81E-09	U			2.54E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-2.12E-10±2.45E-09	U			3.58E-09	µCi/mL	SC	SCA-337
0	Cesium-137	-1.98E-09±1.75E-09	U			2.70E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.08E-09±1.83E-09	U			3.57E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.98E-09±1.75E-09	U			2.70E-09	µCi/mL	GP	RADA-013
0	Cesium-137	7.95E-10±2.24E-09	U			4.06E-09	µCi/mL	SC	SCA-337
0	Cobalt-57	-4.92E-10±1.68E-09	U			2.83E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.24E-09±1.77E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.52E-09±2.25E-09	U			4.37E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.24E-09±1.77E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	7.78E-10±2.58E-09	U			4.46E-09	µCi/mL	SC	SCA-337
0	Curium-242	<0.00E+00	U			1.02E-10	µCi/mL	GP	RADA-011
0	Curium-242	3.19E-10±4.52E-10	U			4.05E-10	µCi/mL	SC	SCA-330
2	Curium-243/244	8.85E-09±1.04E-09	U			9.66E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	4.11E-10±2.43E-10	J	I		1.12E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.48E-09±5.13E-09	U			8.81E-09	µCi/mL	GP	RADA-013
0	Europium-152	-3.18E-09±6.12E-09	U			9.85E-09	µCi/mL	GP	RADA-013
0	Europium-152	-2.48E-09±5.13E-09	U			8.81E-09	µCi/mL	GP	RADA-013
0	Europium-152	2.59E-09±5.67E-09	U			9.80E-09	µCi/mL	SC	SCA-337
0	Europium-154	-2.08E-09±4.63E-09	U			7.83E-09	µCi/mL	GP	RADA-013
0	Europium-154	2.66E-09±5.22E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.08E-09±4.63E-09	U			7.83E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.35E-09±4.04E-09	U			6.80E-09	µCi/mL	SC	SCA-337
0	Europium-155	1.38E-09±7.41E-09	U			1.28E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.67E-09±7.65E-09	U			1.35E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.38E-09±7.41E-09	U			1.28E-08	µCi/mL	GP	RADA-013
0	Europium-155	-3.47E-07±7.36E-07	U			1.25E-06	µCi/mL	SC	SCA-337
2	Gross alpha	7.56E-07±1.34E-07	U			8.39E-08	µCi/mL	GP	EPA900.0
2	Gross alpha	4.60E-07±3.08E-08	U			2.92E-09	µCi/mL	SC	SCA-335
2	Iodine-129	6.27E-08±9.02E-09	U			3.23E-09	µCi/mL	GP	RADA-006
2	Iodine-129	5.39E-08±6.26E-09	U			4.66E-09	µCi/mL	SC	SCA-344
0	Lead-212	2.44E-09±5.60E-09	U			5.50E-09	µCi/mL	GP	RADA-013
0	Lead-212	9.70E-09±5.30E-09	J	I		5.74E-09	µCi/mL	GP	RADA-013
0	Lead-212	2.44E-09±5.60E-09	U			5.50E-09	µCi/mL	GP	RADA-013
0	Lead-212	2.42E-09±4.68E-09	U			7.43E-09	µCi/mL	SC	SCA-337
0	Lead-214	7.06E-08±1.19E-08	U			6.86E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.65E-08±1.01E-08	U			7.86E-09	µCi/mL	GP	RADA-013
0	Lead-214	4.52E-08±1.06E-08	U			8.15E-09	µCi/mL	SC	SCA-337
0	Manganese-54	-2.18E-10±1.77E-09	U			3.15E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	3.11E-10±2.86E-10	U			4.09E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	1.72E-09±9.87E-10	J	I		7.37E-10	µCi/mL	SC	SCA-341
2	Nonvolatile beta	8.73E-07±8.73E-08	U			1.59E-07	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.53E-07±7.79E-08	U			2.46E-09	µCi/mL	SC	SCA-335
0	Plutonium-238	2.89E-11±5.67E-11	U			8.68E-11	µCi/mL	GP	RADA-011
0	Plutonium-238	2.80E-11±3.22E-10	U			7.92E-10	µCi/mL	SC	SCA-330
0	Plutonium-239/240	2.06E-11±5.90E-11	U			1.59E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.48E-08±3.57E-08	U			3.03E-08	µCi/mL	GP	RADA-013
0	Potassium-40	8.33E-10±2.73E-08	U			3.12E-08	µCi/mL	GP	RADA-013
0	Potassium-40	2.48E-08±3.57E-08	U			3.03E-08	µCi/mL	GP	RADA-013
0	Potassium-40	-4.02E-09±3.17E-08	U			5.70E-08	µCi/mL	SC	SCA-337
0	Promethium-144	-1.20E-10±1.76E-09	U			2.98E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.97E-09±2.23E-09	U			4.07E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-5.58E-11±2.51E-09	U			4.45E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.97E-09±2.23E-09	U			4.07E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.05E-08±2.80E-08	U			4.83E-08	µCi/mL	SC	SCA-337
2	Radium, total alpha-emitting	6.64E-08±2.97E-09	U			2.84E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	7.00E-08±3.41E-09	U			5.88E-10	µCi/mL	SC	SCA-334
2	Radium-226	4.31E-08±2.85E-09	U			5.26E-10	µCi/mL	GP	RADA-008
2	Radium-226	5.70E-08±1.00E-09	U			2.30E-10	µCi/mL	SC	SCA-318
2	Radium-228	2.74E-08±2.33E-09	J	L	I	1.85E-09	µCi/mL	GP	RADA-009
2	Radium-228	2.75E-08±1.92E-09	J	L	C	7.20E-10	µCi/mL	SC	SCA-319
0	Ruthenium-106	-9.65E-09±1.55E-08	U			2.54E-08	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FBI 10D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
20	Sodium-22	-7.44E-10±1.65E-09	U			2.80E-09	µCi/mL	GP	RADA-013
2	Strontium-90	3.35E-07±6.33E-09	U		5	1.05E-09	µCi/mL	GP	RADA-004
2	Strontium-90	3.46E-07±6.94E-09	U			3.78E-10	µCi/mL	SC	SCA-333
2	Strontium-90	1.73E-07±3.47E-09	U			3.78E-10	µCi/mL	SC	SCA-333
0	Technetium-99	1.03E-07±1.55E-08	U			2.08E-08	µCi/mL	GP	RADA-005
0	Technetium-99	8.60E-08±3.92E-09	U			3.51E-09	µCi/mL	SC	SCA-342
0	Thallium-208	2.84E-09±3.95E-09	U		4	4.14E-09	µCi/mL	GP	RADA-013
0	Thallium-208	4.66E-09±3.47E-09	U			4.26E-09	µCi/mL	GP	RADA-013
0	Thallium-208	7.32E-10±2.99E-09	J	I		4.81E-09	µCi/mL	SC	SCA-337
0	Thorium-228	3.28E-10±1.43E-10	U			1.84E-10	µCi/mL	GP	RADA-012
0	Thorium-228	3.49E-10±2.09E-09	U			3.40E-09	µCi/mL	SC	SCA-330
0	Thorium-230	2.47E-11±5.74E-11	U			1.32E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.47E-10±5.28E-10	U			1.17E-09	µCi/mL	SC	SCA-330
0	Thorium-232	-9.65E-12±1.34E-11	U			9.31E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-4.90E-11±5.95E-10	U			1.54E-09	µCi/mL	SC	SCA-330
0	Thorium-234	9.32E-08±9.70E-08	U			1.71E-07	µCi/mL	GP	RADA-013
2	Tritium	3.48E-03±8.60E-06	U		5	4.00E-07	µCi/mL	GP	RADA-002
2	Tritium	3.79E-03±1.90E-05	U			5.13E-07	µCi/mL	SC	SCA-339
2	Uranium-233/234	2.08E-07±1.45E-08	U			2.49E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.75E-08±4.25E-09	U			1.84E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.25E-08±4.72E-09	U			1.06E-09	µCi/mL	SC	SCA-330
2	Uranium-238	3.13E-07±1.78E-08	U			1.39E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.78E-07±5.42E-08	U			1.79E-09	µCi/mL	SC	SCA-330
0	Yttrium-88	-1.55E-09±1.85E-09	U			3.01E-09	µCi/mL	GP	RADA-013
0	Zinc-65	4.09E-09±4.02E-09	U			7.05E-09	µCi/mL	GP	RADA-013

## WELL FBI 10D Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 70.3 ft (21.43 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 839 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 10:09  
 Water temperature: 22.4°C  
 Air temperature: 33°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	32,200				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	533				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	5.28				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.01				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	14,000				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.23	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	118				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	79.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,600				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	38.1				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	3,690				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3,040				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	47.6				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	92,600				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	940				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	65,300				100	µg/L	GE	EPA6010B
0	Sulfate	1,530				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<4.19	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	97.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.25E-08±1.47E-08	J	I		1.16E-08	µCi/mL	GP	RADA-011
2	Americium-241	7.13E-09±1.61E-09				7.99E-10	µCi/mL	GP	RADA-011
0	Americium-243	3.23E-10±3.47E-09	U			4.54E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.35E-09±4.76E-09	U			8.15E-09	µCi/mL	GP	RADA-013
0	Barium-133	3.74E-09±2.90E-09	U			4.37E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.89E-08±9.14E-09	U			6.21E-09	µCi/mL	GP	RADA-013
0	Carbon-14	4.47E-08±1.62E-08	J	I		2.56E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.81E-09±1.74E-09	U			2.83E-09	µCi/mL	GP	RADA-013



Well FBI 10D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cesium-137	3.89E-10±1.82E-09	U			3.32E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.21E-09±2.22E-09	U			4.17E-09	µCi/mL	GP	RADA-013
0	Curium-242	-9.88E-11±7.91E-11	U			7.77E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	6.88E-09±1.57E-09	U			4.92E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	5.14E-10±4.76E-10	U			5.70E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.15E-09±5.86E-09	U			9.71E-09	µCi/mL	GP	RADA-013
0	Europium-154	2.12E-09±4.43E-09	U			8.96E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.10E-09±7.38E-09	U			1.31E-08	µCi/mL	GP	RADA-013
2	Gross alpha	8.27E-07±1.39E-07				6.18E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.04E-08±5.36E-09				4.19E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.59E-09±3.78E-09	U			6.75E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.21E-08±8.53E-09				7.03E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	9.77E-11±2.25E-10	U			5.37E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.16E-06±9.25E-08				1.33E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-7.40E-12±1.45E-11	U			1.41E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-7.40E-12±1.45E-11	U			1.41E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.42E-08±2.43E-08	U			4.45E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.03E-09±2.36E-09	U			4.48E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	7.57E-08±3.13E-09				3.73E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.32E-08±3.11E-09				3.47E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.35E-08±2.03E-09	J	L		1.53E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.15E-07±5.50E-09			5	1.00E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.05E-07±1.46E-08				1.93E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.47E-09±3.00E-09	R		4	4.12E-09	µCi/mL	GP	RADA-013
0	Thorium-228	3.66E-10±1.55E-10	J	I		1.97E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.27E-11±1.24E-10	U			2.70E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.30E-11±4.01E-11	U			8.11E-11	µCi/mL	GP	RADA-012
2	Tritium	3.83E-03±9.01E-06			5	3.99E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.48E-07±1.60E-08				2.83E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.45E-08±5.07E-09				2.18E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.39E-07±1.87E-08				2.17E-09	µCi/mL	GP	RADA-011

## WELL FBI 10D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
Depth to water: 70.71 ft (21.55 m) below TOC  
Water elevation: Not available  
pH: 4  
Sp. conductance: 740 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 12 gal

Time: 13:57  
Water temperature: 21.8°C  
Air temperature: 33°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	23,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	405				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.12	J	I		5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.04	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	9,020				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.91	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	76.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	68.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	1,310				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	26.3				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	2,310				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,020				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	31.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	72,500				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	104				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	675				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	49,800				100	µg/L	GE	EPA6010B
0	Sulfate	2,120				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	20.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	64.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.75E-08±1.16E-08	R		4	1.76E-08	µCi/mL	GP	RADA-013
2	Americium-241	7.90E-09±1.69E-09				1.48E-09	µCi/mL	GP	RADA-011

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Well FBI 10D collected on 06/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Americium-243	1.48E-09±5.05E-09	U			2.50E-09	µCi/mL	GP	RADA-011
0	Antimony-125	7.23E-09±5.40E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Barium-133	2.06E-09±2.99E-09	U			4.63E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.01E-07±1.03E-08	U			6.29E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.24E-08±1.45E-08	U			2.43E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.59E-10±1.78E-09	U			2.78E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.04E-09±1.92E-09	U			3.20E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.35E-10±1.84E-09	U			3.44E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.34E-10±3.95E-10	U			8.82E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.06E-08±1.93E-09				1.59E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	2.85E-10±5.08E-10	U			9.94E-10	µCi/mL	GP	RADA-011
0	Europium-152	1.88E-09±5.90E-09	U			9.96E-09	µCi/mL	GP	RADA-013
0	Europium-154	-8.94E-10±5.34E-09	U			9.51E-09	µCi/mL	GP	RADA-013
0	Europium-155	-6.46E-10±7.36E-09	U			1.27E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.01E-07±2.20E-08			5	2.61E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.53E-08±7.49E-09				3.23E-09	µCi/mL	GP	RADA-006
0	Lead-212	9.59E-09±5.71E-09	J	I		5.74E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.08E-07±1.15E-08				7.82E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.00E-10±2.01E-10	U			3.08E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	7.34E-07±9.88E-09				3.58E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.18E-11±5.79E-11	U			1.52E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	8.04E-12±6.10E-11	U			2.00E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.48E-08±3.48E-08	U			3.47E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-7.22E-10±2.59E-09	U			3.94E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	5.62E-08±3.66E-09				5.75E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.78E-08±3.53E-09				6.01E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.91E-08±1.38E-09	J	K	C	1.08E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.43E-07±7.33E-09				1.45E-09	µCi/mL	GP	RADA-004
2	Strontium-90	2.38E-07±7.20E-09				1.65E-09	µCi/mL	GP	RADA-004
0	Technetium-99	5.29E-08±1.25E-08				2.04E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.27E-09±2.75E-09	U			2.88E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.95E-10±1.34E-10	J	I		1.88E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.28E-10±6.97E-11	J	I		2.96E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.26E-11±3.07E-11	U			6.85E-11	µCi/mL	GP	RADA-012
2	Tritium	3.10E-03±8.02E-05			5	3.35E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.43E-07±1.05E-08				1.80E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.44E-08±3.38E-09				1.58E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.38E-07±1.24E-08				1.13E-09	µCi/mL	GP	RADA-011

## WELL FBI 10D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
Depth to water: 77.39 ft (23.59 m) below TOC  
Water elevation: Not available  
pH: 3.8  
Sp. conductance: 643 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 10 gal

Time: 9:43  
Water temperature: 20.8°C  
Air temperature: 25.4°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,600				50.0	µg/L	GE	EPA6010B
2	Antimony, total recoverable	10.0				10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	355				5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.37				5.00	µg/L	GE	EPA6010B
1	Cadmium, total recoverable	3.00	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,100				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.29	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	63.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	36.2				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	803				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,920				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,590				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	27.6				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	65,800				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	67,200				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	739				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FBI 10D collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, total recoverable	<2.17	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	44,500				100	µg/L	GE	EPA6010B
0	Sulfate	1,880				200	µg/L	GE	EPA300.0
0	Sulfate	1,860				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<50.0	U		6	50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	<50.0	U			50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	60.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.09E-08±2.77E-08	R		4	3.08E-08	µCi/mL	GP	RADA-013
2	Americium-241	7.04E-09±5.52E-10				7.09E-11	µCi/mL	GP	RADA-011
0	Antimony-125	-1.50E-09±9.19E-09	U			1.53E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.40E-09±4.89E-09	U			7.01E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	3.71E-09±1.28E-08	U			1.61E-08	µCi/mL	GP	RADA-013
0	Carbon-14	3.59E-08±2.91E-08	U			4.83E-08	µCi/mL	GP	RADA-003
0	Carbon-14	3.92E-08±2.87E-08	U			4.73E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-6.77E-09±3.77E-09	U			5.91E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-2.11E-10±4.02E-09	U			7.03E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.62E-09±4.33E-09	U			7.45E-09	µCi/mL	GP	RADA-013
0	Curium-242	2.39E-11±2.93E-11	U			3.58E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	1.03E-08±6.66E-10				3.38E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	4.40E-10±1.49E-10				6.96E-11	µCi/mL	GP	RADA-011
0	Europium-152	9.85E-09±1.49E-08	U			1.60E-08	µCi/mL	GP	RADA-013
0	Europium-154	7.78E-09±1.72E-08	U			2.14E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.90E-09±8.93E-09	U			1.55E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.54E-07±4.27E-08				2.18E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	3.66E-08±2.65E-09				2.06E-09	µCi/mL	GP	RADA-006
0	Lead-212	8.33E-10±9.68E-09	U	V		1.05E-08	µCi/mL	GP	RADA-013
0	Lead-214	2.22E-08±1.29E-08		I		1.14E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	2.49E-10±3.30E-10	JU	L	C	6.19E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.41E-07±3.77E-08				4.56E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.24E-11±4.38E-11	U			6.71E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.74E-11±5.87E-11	U			1.52E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.96E-08±4.17E-08	U			7.89E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.65E-09±4.18E-09	U			7.65E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	4.08E-08±2.19E-09				2.63E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.14E-08±2.17E-09	J	L	C	4.18E-10	µCi/mL	GP	RADA-008
2	Radium-226	2.16E-08±2.00E-09	J	L	C	6.18E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.08E-08±1.26E-09				1.05E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.09E-07±6.96E-09				1.75E-09	µCi/mL	GP	RADA-004
0	Technetium-99	3.65E-08±1.10E-08	J	I		1.94E-08	µCi/mL	GP	RADA-005
0	Technetium-99	5.05E-08±1.18E-08				1.89E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.20E-09±8.91E-09	U			7.99E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.27E-10±1.00E-10	U			1.81E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.15E-10±1.03E-10	U			1.84E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.68E-11±8.18E-11	U			1.78E-10	µCi/mL	GP	RADA-012
2	Tritium	2.52E-03±4.80E-05			5	3.02E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.25E-07±1.01E-08				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.49E-08±3.35E-09				8.14E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.23E-07±1.20E-08				8.11E-10	µCi/mL	GP	RADA-011

## WELL FBI 11D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: 63.91 ft (19.48 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 1,233 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 14:21  
 Water temperature: 22.3°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	35,100				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	34,500				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<7.57	JU		4	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	268				5.00	µg/L	GE	EPA6010B
2	Beryllium, dissolved	9.07				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	8.90				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	22.0				5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	20,100				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	19,400	J	K	I	100	µg/L	GE	EPA6010B

ESH-EMS-20010585

Well FBI 11D collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
00	Chloride	2,300				100	µg/L	GE	EPA9056
0	Chromium, total recoverable	5.40				5.00	µg/L	GE	EPA6010B
2	Cobalt, dissolved	168				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	160				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	102				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	114				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
2	Lead, total recoverable	226				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	10,700				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	10,500				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	JU	Q		0.200	µg/L	GE	EPA7470A
1	Nickel, dissolved	60.0				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	56.9				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	142,000				5,000	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Sodium, dissolved	70,600				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	70,100				100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA9056
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	220				50.0	µg/L	GE	EPA365.4
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	205				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	218				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.86E-08±1.08E-08	R		4	1.39E-08	µCi/mL	GP	RADA-013
0	Americium-241	2.16E-09±1.04E-09	J	I		3.25E-10	µCi/mL	GP	RADA-011
0	Antimony-125	2.62E-09±4.40E-09	U			7.67E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	9.48E-09±1.13E-08	U			2.12E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.84E-08±6.81E-09				5.05E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.50E-08±1.56E-08				2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.68E-10±1.64E-09	U			2.48E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.21E-09±1.54E-09	U			2.59E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.96E-09±1.85E-09	R		4	3.63E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			3.81E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	2.82E-09±1.22E-09				3.26E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	7.54E-10±6.30E-10	J	I		3.77E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.53E-09±4.50E-09	U			7.41E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.26E-09±3.86E-09	U			6.61E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.34E-09±6.39E-09	U			1.11E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.41E-07±5.81E-09				1.51E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	9.88E-08±1.32E-08				4.03E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.72E-09±5.07E-09	U			4.71E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.75E-06±1.29E-08	J	K	I	1.67E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.32E-10±1.38E-10	U			5.23E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.91E-11±1.12E-10	U			2.84E-10	µCi/mL	GP	RADA-011
0	Potassium-40	9.01E-09±2.73E-08	U			2.79E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.75E-10±2.03E-09	U			3.48E-09	µCi/mL	GP	RADA-013
0	Radium-226	8.01E-10±3.38E-10	J	I		2.99E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.47E-08±1.15E-09				9.84E-10	µCi/mL	GP	RADA-009
2	Strontium-90	7.96E-07±6.22E-09			5	6.81E-10	µCi/mL	GP	RADA-004
2	Strontium-90	6.97E-07±5.85E-09			5	6.55E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.70E-07±1.87E-08				1.98E-08	µCi/mL	GP	RADA-005
0	Thallium-208	8.11E-10±1.69E-09	U			3.06E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.24E-10±2.28E-10	J	I		3.21E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.06E-11±9.44E-11	U			1.89E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-2.22E-11±2.59E-11	U			1.28E-10	µCi/mL	GP	RADA-012
2	Uranium-233/234	4.84E-08±7.76E-09				6.74E-10	µCi/mL	GP	RADA-011
0	Uranium-235	3.91E-09±1.26E-09				4.41E-10	µCi/mL	GP	RADA-011
2	Uranium-238	5.59E-08±8.78E-09				4.39E-10	µCi/mL	GP	RADA-011

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Second Quarter 2001



## WELL FBI 11D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 63.98 ft (19.5 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 1,117 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 14:01  
 Water temperature: 22.7°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bis(2-ethylhexyl) phthalate	<1.01	U			1.01	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Trichloroethylene	4.57	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	2.11	J	L	O	1.00	µg/L	GE	EPA8260B
2	Tritium	3.86E-03±1.12E-05				8.01E-07	µCi/mL	GP	RADA-002

## WELL FBI 11D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 63.85 ft (19.46 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 111 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 39 gal

Time: 15:08  
 Water temperature: 23°C  
 Air temperature: 36.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	13,900	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	JU	L	I	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	105	J	L	I	5.00	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.64	J	IL	I	5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	8.86	J	L	I	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	7,600	J	L	I	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.77	J	IL	I	5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	59.7	J	L	I	5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	23.2	J	L	I	5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q	I	5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	311	J	L	I	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	4,160	J	L	I	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,220	J	L	I	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	23.8	J	L	I	5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	123,000				1,250	µg/L	GE	EPA300.0

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Well FBI 11D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nitrite as nitrogen	62.0				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	766	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<1.55	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	28,600	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	15.5	J	L	I	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	74.7	J	L	I	5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.21E-08±1.37E-08	U			1.05E-08	µCi/mL	GP	RADA-013
0	Americium-241	1.54E-09±6.95E-10	J	I		2.44E-10	µCi/mL	GP	RADA-011
0	Americium-243	4.34E-10±2.07E-09	U			9.99E-10	µCi/mL	GP	RADA-011
0	Antimony-125	1.91E-09±4.92E-09	U			9.12E-09	µCi/mL	GP	RADA-013
0	Barium-133	-5.82E-10±3.00E-09	U			4.37E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.69E-08±1.20E-08	U			5.90E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.90E-08±1.54E-08	U			2.55E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.39E-12±1.84E-09	U			2.90E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.11E-10±2.21E-09	U			3.93E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.29E-10±2.08E-09	U			4.06E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			2.57E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	1.95E-09±7.79E-10	U			2.44E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.89E-10±2.62E-10	U			2.83E-10	µCi/mL	GP	RADA-011
0	Europium-152	6.60E-11±5.98E-09	U			1.00E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.70E-09±7.83E-09	U			1.17E-08	µCi/mL	GP	RADA-013
0	Europium-155	-2.60E-09±7.54E-09	U			1.29E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.00E-07±9.48E-08				7.30E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	8.53E-08±1.19E-08				5.06E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.81E-09±4.23E-09	U			6.70E-09	µCi/mL	GP	RADA-013
0	Lead-214	4.60E-08±1.04E-08				6.81E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.80E-10±3.74E-10	U			8.51E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.77E-06±5.84E-08				1.39E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			8.28E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			8.27E-11	µCi/mL	GP	RADA-011
0	Potassium-40	2.94E-08±2.72E-08	U			5.39E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.34E-09±2.64E-09	U			4.55E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	6.02E-08±2.89E-09				3.31E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.13E-08±3.79E-09				9.41E-10	µCi/mL	GP	RADA-008
2	Radium-226	5.25E-08±3.42E-09				6.19E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.79E-08±1.87E-09	J	L	I	1.71E-09	µCi/mL	GP	RADA-009
2	Strontium-90	8.05E-07±9.17E-09			5	1.06E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.73E-07±1.59E-08				1.83E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.50E-09±2.09E-09	U			3.91E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.95E-10±1.24E-10	U			1.98E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.89E-10±1.09E-10	J	I		1.45E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.82E-11±3.90E-11	U			4.23E-11	µCi/mL	GP	RADA-012
0	Thorium-230	1.15E-11±5.23E-11	U			1.35E-10	µCi/mL	GP	RADA-012
0	Thorium-232	<0.00E+00	U			4.23E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-1.10E-12±3.17E-11	U			1.08E-10	µCi/mL	GP	RADA-012
2	Tritium	3.35E-03±8.75E-06			5	4.03E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	5.11E-08±3.36E-09				6.02E-10	µCi/mL	GP	RADA-011
0	Uranium-235	4.31E-09±9.81E-10				3.88E-10	µCi/mL	GP	RADA-011
2	Uranium-238	5.56E-08±3.49E-09				4.76E-10	µCi/mL	GP	RADA-011

## WELL FBI 11D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 64.05 ft (19.52 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 1,018 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 9:16  
 Water temperature: 20.5°C  
 Air temperature: 24.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	34,100	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	250	J	K	I	5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	7.53				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	19.8				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	16,600			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.57				5.00	µg/L	GE	EPA6010B

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Well FBI 11D collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Cobalt, total recoverable	127				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	62.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	623			5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	21.1				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	10,200			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	2,720			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	45.5				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	106,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	101				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,570	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	66,900	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<5.16	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	20.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	136				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.70E-08±1.26E-08	J	I		1.65E-08	µCi/mL	GP	RADA-013
0	Americium-241	1.65E-09±7.75E-10	J	I		1.08E-09	µCi/mL	GP	RADA-011
0	Americium-243	2.38E-10±3.77E-09	U			7.84E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.03E-09±5.20E-09	U			8.52E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.71E-09±2.85E-09	U			3.99E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	3.76E-08±8.84E-09				5.93E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.25E-08±1.60E-08				2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	7.23E-11±1.67E-09	U			3.02E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-2.85E-10±1.69E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	5.55E-10±1.76E-09	U			3.49E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.12E-10±2.76E-10	U			8.60E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	1.43E-09±8.50E-10	J	I		1.31E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	4.65E-10±4.64E-10	U			7.44E-10	µCi/mL	GP	RADA-011
0	Europium-152	1.83E-09±5.54E-09	U			9.64E-09	µCi/mL	GP	RADA-013
0	Europium-154	5.36E-09±5.42E-09	U			1.10E-08	µCi/mL	GP	RADA-013
0	Europium-155	-2.29E-09±7.04E-09	U			1.22E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.29E-07±1.61E-08			5	2.12E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	9.29E-08±1.16E-08				3.27E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.39E-09±5.06E-09	U			5.39E-09	µCi/mL	GP	RADA-013
0	Lead-214	3.26E-08±9.79E-09	U	V		6.48E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	4.24E-10±2.26E-10	R		4	3.01E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.64E-06±6.35E-09				3.80E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-2.34E-11±1.76E-10	U			4.90E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.47E-11±6.55E-11	U			1.72E-10	µCi/mL	GP	RADA-011
0	Potassium-40	4.54E-09±3.42E-08	U			3.44E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.30E-09±2.55E-09	U			4.47E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	6.47E-08±3.92E-09				4.81E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.07E-08±2.81E-09				5.29E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.70E-08±1.38E-09	J	K	C	1.14E-09	µCi/mL	GP	RADA-009
2	Strontium-90	7.59E-07±1.37E-08				1.99E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.68E-07±1.81E-08				2.31E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.68E-09±2.00E-09	U			3.92E-09	µCi/mL	GP	RADA-013
0	Thorium-228	8.03E-11±1.11E-10	U			2.24E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.47E-10±1.37E-10	U			2.42E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.35E-10±1.36E-10	U			2.50E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.05E-10±1.02E-10	U			1.62E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-1.46E-10±1.05E-10	U			3.06E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-9.05E-12±1.77E-11	U			1.17E-10	µCi/mL	GP	RADA-012
2	Tritium	3.34E-03±8.66E-05			5	3.52E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	6.03E-08±4.36E-09				1.00E-09	µCi/mL	GP	RADA-011
0	Uranium-235	5.22E-09±1.31E-09				7.84E-10	µCi/mL	GP	RADA-011
2	Uranium-238	6.31E-08±4.45E-09				7.81E-10	µCi/mL	GP	RADA-011

## WELL FBI 11D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 935 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 75 gal

Time: 15:04  
 Water temperature: 21.1°C  
 Air temperature: 30.7°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	27,700				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	244				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.52	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	15.9				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	12,200				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	4.24	J	I		5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	94.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	59.7				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	520				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	8,240				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,940				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	30.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	99,100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	1,190				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	56,200				100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<30.0	U	V		50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	<60.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	87.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.75E-08±1.51E-08	R		4	2.14E-08	µCi/mL	GP	RADA-013
1	Americium-241	4.31E-09±1.58E-09				7.92E-10	µCi/mL	GP	RADA-011
0	Americium-243	5.97E-10±3.15E-09	U			2.29E-10	µCi/mL	GP	RADA-011
0	Antimony-125	3.03E-09±6.14E-09	U			1.12E-08	µCi/mL	GP	RADA-013
0	Barium-133	1.18E-09±3.38E-09	U			5.16E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.70E-08±1.02E-08	U		4	1.23E-08	µCi/mL	GP	RADA-013
0	Carbon-14	5.87E-08±2.92E-08	J	I		4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-4.26E-11±2.39E-09	U			4.17E-09	µCi/mL	GP	RADA-013
0	Cesium-137	7.43E-10±2.40E-09	U			4.33E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.95E-09±4.04E-09	U			5.35E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.68E-10±2.62E-10	U			5.04E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	4.51E-09±1.60E-09				4.51E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	-4.18E-11±8.19E-11	U			9.19E-10	µCi/mL	GP	RADA-011
0	Europium-152	4.12E-10±6.81E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.84E-09±7.28E-09	U			1.38E-08	µCi/mL	GP	RADA-013
0	Europium-155	-1.82E-09±7.20E-09	U			1.24E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.24E-07±2.61E-08				1.51E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	8.17E-08±4.72E-09				3.62E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.83E-09±5.04E-09	U	V		8.03E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.39E-08±1.16E-08	R		4	1.18E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	4.02E-10±2.23E-10	J	I		1.66E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.41E-06±5.24E-08				4.34E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.37E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.48E-11±9.22E-11	U			2.41E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.50E-08±5.14E-08	U			4.97E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.09E-10±2.88E-09	U			5.11E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	5.69E-08±2.70E-09				3.76E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.88E-08±3.54E-09	J	L	C	7.19E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.24E-08±1.01E-09				9.92E-10	µCi/mL	GP	RADA-009
2	Strontium-90	6.85E-07±5.81E-09			5	6.06E-10	µCi/mL	GP	RADA-004
2	Strontium-90	6.55E-07±7.37E-09			5	8.52E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.12E-07±1.51E-08				1.83E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.01E-09±5.00E-09	U			5.16E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.82E-10±1.90E-10	U			3.96E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.94E-11±8.54E-11	U			1.83E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-1.16E-11±1.61E-11	U			1.51E-10	µCi/mL	GP	RADA-012
2	Tritium	2.37E-03±4.64E-05			5	3.00E-06	µCi/mL	GP	RADA-002



Well FBI 11D collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Uranium-233/234	6.91E-08±3.63E-09				3.08E-10	µCi/mL	GP	RADA-011
0	Uranium-235	6.52E-09±1.12E-09				3.45E-10	µCi/mL	GP	RADA-011
2	Uranium-238	7.51E-08±3.78E-09				4.01E-10	µCi/mL	GP	RADA-011

**WELL FBI 12D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 66.96 ft (20.41 m) below TOC  
 Water elevation: Not available  
 pH: 4.3  
 Sp. conductance: 532 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 11:25  
 Water temperature: 24°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	3,930				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	3,930				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	153				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.980	U			0.980	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	1.74	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	3,150				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,200				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	13,200				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	5.34				5.00	µg/L	GE	EPA6010B
0	Cobalt, dissolved	13.4				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	13.7				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	18.6				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	19.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	789				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	795				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	JU	Q		0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	<6.82	U	V		5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	<6.13	U	V		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	55,000				2,500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.440	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	86,600				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	88,300				100	µg/L	GE	EPA6010B
0	Sulfate	3,660				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well FBI 12D collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Total phosphates (as P)	<50.0	JU	L	C	50.0	µg/L	GE	EPA9056
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	10.8	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	1.27	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	1.45	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	<17.3	U	V		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<16.4	U	V		5.00	µg/L	GE	EPA6010B
0	Actinium-228	9.76E-09±1.20E-08	U			1.53E-08	µCi/mL	GP	RADA-013
1	Americium-241	5.21E-09±1.48E-09				1.42E-09	µCi/mL	GP	RADA-011
0	Antimony-125	5.15E-10±5.09E-09	U			9.23E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	-3.64E-09±1.39E-08				2.40E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	8.33E-09±7.42E-09	R		4	6.62E-09	µCi/mL	GP	RADA-013
0	Carbon-14	-7.42E-09±1.34E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-6.17E-10±1.72E-09	U			2.96E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.02E-09±2.93E-09	U			3.59E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.16E-10±1.83E-09	U			3.37E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.77E-11±4.69E-10	U			1.04E-09	µCi/mL	GP	RADA-011
1	Curium-243/244	4.99E-09±1.53E-09				1.70E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	5.02E-10±4.41E-10	U			5.55E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.97E-10±4.71E-09	U			8.63E-09	µCi/mL	GP	RADA-013
0	Europium-154	2.18E-09±5.52E-09	U			1.09E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.15E-09±6.90E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.73E-07±2.01E-08			5	6.36E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	2.77E-08±3.92E-09				1.41E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.11E-09±4.90E-09	U			6.61E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	2.63E-07±1.66E-08				7.77E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.03E-10±1.69E-10	U			3.09E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.20E-11±8.92E-11	U	V		2.63E-10	µCi/mL	GP	RADA-011
0	Potassium-40	6.92E-09±3.73E-08	U			3.20E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.59E-10±2.09E-09	U			3.91E-09	µCi/mL	GP	RADA-013
1	Radium-226	3.78E-09±8.23E-10				3.35E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.08E-08±1.18E-09				1.27E-09	µCi/mL	GP	RADA-009
2	Strontium-90	7.38E-08±2.14E-09	J	K	I	6.66E-10	µCi/mL	GP	RADA-004
0	Technetium-99	3.41E-08±1.12E-08	J	I		2.01E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.06E-09±2.07E-09	U			3.84E-09	µCi/mL	GP	RADA-013
0	Thorium-228	7.38E-11±6.99E-11	U			1.13E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.71E-10±1.11E-10	J	I		1.65E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-1.31E-11±2.60E-11	U			8.91E-11	µCi/mL	GP	RADA-012
2	Tritium	1.92E-03±3.73E-05				4.25E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	4.57E-08±7.40E-09				2.75E-10	µCi/mL	GP	RADA-011
0	Uranium-235	5.72E-09±1.38E-09				3.25E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.04E-07±1.59E-08				2.75E-10	µCi/mL	GP	RADA-011

**WELL FBI 12D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 66.62 ft (20.31 m) below TOC  
 Water elevation: Not available  
 pH: 4.3  
 Sp. conductance: 518 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 12:51  
 Water temperature: 22.6°C  
 Air temperature: 33.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3,750	J	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	JU	L	I	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	137	J	L	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.63	J	IL	I	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	4,080	J	L	I	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	11.2	J	L	I	5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	9.12	J	L	I	5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	252	J	L	I	5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	990	J	L	I	50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	199	J	L	I	5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	854	J	L	I	20.0	µg/L	GE	EPA6010B

B-110

Second Quarter 2001



Well FBI 12D collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Manganese, total recoverable	205	J	L		10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	12.9	J	L	I	5.00	µg/L	GE	EPA6010B
0	Nitrate as nitrogen	52,500				1,250	µg/L	GE	EPA300.0
0	Nitrate as nitrogen	53,600				1,250	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	545	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	JU	L	I	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<2.02	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	82,400	J	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,780				200	µg/L	GE	EPA300.0
0	Sulfate	3,790				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	JU	L	I	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	1.17	J	IL	I	5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	95.5	J	L	I	5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.07E-08±9.41E-09	U			1.41E-08	µCi/mL	GP	RADA-013
1	Americium-241	5.47E-09±9.87E-10				2.87E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.29E-10±1.55E-09	U			3.14E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-6.80E-10±4.44E-09	U			7.73E-09	µCi/mL	GP	RADA-013
0	Barium-133	9.67E-10±2.34E-09	U			3.78E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.30E-08±6.60E-09	J	I		5.15E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.27E-08±1.52E-08	U			2.56E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.03E-10±1.71E-09	U			2.57E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.29E-09±2.71E-09	J	I		3.47E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.25E-09±1.59E-09	U			2.57E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.46E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	6.47E-09±1.07E-09				1.39E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.22E-10±2.57E-10	J	I		1.61E-10	µCi/mL	GP	RADA-011
0	Europium-152	-4.20E-09±4.88E-09	U			8.09E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.75E-09±4.95E-09	U			8.65E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.18E-09±6.97E-09	U			1.18E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.21E-07±7.55E-08				6.98E-08	µCi/mL	GP	EPA900.0
2	Gross alpha	2.37E-07±8.14E-08				6.80E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	2.40E-08±3.87E-09				3.70E-09	µCi/mL	GP	RADA-006
2	Iodine-129	2.77E-08±3.15E-09				2.42E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.74E-09±3.55E-09	U			6.49E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.03E-09±6.79E-09	U			6.16E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.79E-10±2.91E-10	U			6.21E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	3.01E-07±5.17E-08				1.46E-07	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.64E-07±5.31E-08	J	I		1.71E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.54E-11±6.72E-11	U			1.76E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.87E-11±9.38E-11	U			1.76E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.93E-08±2.15E-08	U			4.22E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.87E-10±2.11E-09	U			3.82E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.02E-08±1.16E-09				3.85E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.33E-09±1.00E-09				4.42E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.09E-08±1.37E-09	J	L	I	1.33E-09	µCi/mL	GP	RADA-009
2	Radium-228	9.67E-09±1.42E-09	J	L	I	1.74E-09	µCi/mL	GP	RADA-009
2	Strontium-90	7.30E-08±2.96E-09			5	1.29E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.58E-08±1.27E-08	J	I		2.04E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.56E-09±2.23E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.11E-10±1.32E-10	J	I		2.07E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.83E-11±9.27E-11	U			1.83E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.99E-11±4.57E-11	U			1.08E-10	µCi/mL	GP	RADA-012
2	Tritium	1.64E-03±4.26E-09			5	2.26E-06	µCi/mL	GP	RADA-002
2	Tritium	1.64E-03±4.27E-05			5	2.27E-06	µCi/mL	GP	RADA-002
0	Uranium-233/234	5.69E-08±6.64E-09				1.25E-09	µCi/mL	GP	RADA-011
0	Uranium-235	3.03E-09±1.53E-09	J	I		6.06E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.24E-07±9.78E-09				1.06E-09	µCi/mL	GP	RADA-011

## WELL FBI 12D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 67.33 ft (20.52 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 506 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 22 gal

Time: 10:19  
 Water temperature: 21.6°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3,480	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	130	J	K	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.42	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,700			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	4.89	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	7.70				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	68.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	608			5	50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	38.8				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	756			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	195			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	5.12				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	45,700				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	295	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.268	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	76,900	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,660				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	20.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	25.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	6.37E-09±1.15E-08	R		4	1.70E-08	µCi/mL	GP	RADA-013
1	Americium-241	4.96E-09±2.36E-09	J	I		8.75E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.07E-09±9.70E-09	U			9.58E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.19E-09±5.27E-09	U			8.86E-09	µCi/mL	GP	RADA-013
0	Barium-133	-5.51E-10±2.86E-09	U			4.29E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.89E-09±7.00E-09	U			8.33E-09	µCi/mL	GP	RADA-013
0	Carbon-14	0.00E+00±7.13E-08	U			2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	9.81E-10±1.78E-09	U			3.41E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.45E-09±3.16E-09	U			3.95E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.62E-09±1.74E-09	U			4.00E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.32E-10±5.02E-10	U			9.96E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	5.78E-09±2.55E-09	J	I		1.54E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.61E-09±1.49E-09	U			1.79E-09	µCi/mL	GP	RADA-011
0	Europium-152	3.96E-09±5.75E-09	U			1.04E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.10E-09±6.76E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.91E-09±7.05E-09	U			1.26E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.85E-07±1.28E-08			5	3.16E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	3.03E-08±4.24E-09				4.05E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.33E-09±5.56E-09	U			6.87E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.39E-09±1.09E-08	U			8.68E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.01E-10±1.15E-10	U			1.01E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.26E-07±5.98E-09				3.86E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.86E-11±1.84E-10	U			4.39E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-2.76E-11±2.70E-11	U			2.17E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.45E-08±3.49E-08	U			3.52E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.14E-09±2.17E-09	U			3.99E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.05E-08±1.58E-09				6.47E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.96E-09±8.27E-10				3.24E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.80E-09±1.18E-09	J	K	C	1.29E-09	µCi/mL	GP	RADA-009
2	Strontium-90	8.14E-08±4.23E-09				1.75E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.41E-08±1.40E-08	U			2.33E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.35E-09±3.86E-09	J			4.43E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.65E-10±9.54E-11	U	I		1.36E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.01E-11±6.97E-11	J			1.34E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.47E-11±3.72E-11	U			8.11E-11	µCi/mL	GP	RADA-012
2	Tritium	1.69E-03±4.43E-05			5	2.36E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	4.50E-08±3.61E-09				9.21E-10	µCi/mL	GP	RADA-011
0	Uranium-235	6.09E-09±1.42E-09				1.24E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.05E-07±5.50E-09				9.63E-10	µCi/mL	GP	RADA-011



## WELL FBI 12D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: 67.78 ft (20.66 m) below TOC  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 536 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 9:24  
 Water temperature: 20.9°C  
 Air temperature: 30.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3.460				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	1.36				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.36	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1.460				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.28				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	7.66				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	18.0				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	556				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	626				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	198				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	5.73				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	44.500				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	233				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	82.100				100	µg/L	GE	EPA6010B
0	Sulfate	3.400				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<40.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	21.2				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.32E-08±2.37E-08	U			3.34E-08	µCi/mL	GP	RADA-013
1	Americium-241	5.08E-09±9.46E-10				2.42E-10	µCi/mL	GP	RADA-011
0	Americium-243	8.87E-10±1.75E-09	U			2.26E-10	µCi/mL	GP	RADA-011
0	Antimony-125	7.44E-09±1.01E-08	U			2.85E-08	µCi/mL	GP	RADA-013
0	Barium-133	-5.46E-10±4.88E-09	U			7.42E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.58E-08±1.12E-08	U			1.58E-08	µCi/mL	GP	RADA-013
0	Carbon-14	2.95E-08±2.94E-08	U			4.91E-08	µCi/mL	GP	RADA-003
0	Cesium-134	2.33E-09±3.21E-09	U			6.29E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.95E-09±4.18E-09	U			6.65E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.88E-10±3.59E-09	U			7.18E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.54E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	5.10E-09±9.43E-10				1.38E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	5.32E-10±3.30E-10	J	I		1.60E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.70E-09±1.06E-08	U			1.87E-08	µCi/mL	GP	RADA-013
0	Europium-154	5.24E-09±8.84E-09	U			1.88E-08	µCi/mL	GP	RADA-013
0	Europium-155	5.71E-10±1.12E-08	U			1.99E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.47E-07±7.00E-08	J	I		1.05E-07	µCi/mL	GP	EPA900.0
2	Iodine-129	2.75E-08±7.26E-09				4.06E-09	µCi/mL	GP	RADA-006
0	Lead-212	9.77E-09±9.09E-09	U	V		1.25E-08	µCi/mL	GP	RADA-013
0	Lead-214	4.90E-09±1.70E-08	U			1.43E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	2.96E-11±1.10E-10	U			2.99E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.49E-07±8.39E-08	J	I		1.50E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			9.77E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	6.51E-11±9.02E-11	U			9.77E-11	µCi/mL	GP	RADA-011
0	Potassium-40	7.64E-08±4.69E-08	U			1.05E-07	µCi/mL	GP	RADA-013
0	Promethium-146	-9.86E-10±4.80E-09	U			8.05E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	7.55E-09±1.02E-09				3.99E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.86E-09±9.34E-10	J	L	C	4.73E-10	µCi/mL	GP	RADA-008
2	Radium-228	7.93E-09±7.99E-10				9.34E-10	µCi/mL	GP	RADA-009
2	Strontium-90	6.17E-08±2.12E-09				7.83E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.16E-08±9.53E-09	J	I		1.86E-08	µCi/mL	GP	RADA-005
0	Thallium-208	6.13E-10±5.84E-09	U			7.85E-09	µCi/mL	GP	RADA-013
0	Thorium-228	8.65E-11±1.33E-10	U			3.00E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.08E-11±8.88E-11	U			2.24E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.22E-11±8.34E-11	U			1.57E-10	µCi/mL	GP	RADA-012
2	Tritium	1.60E-03±3.11E-05				2.37E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	4.93E-08±3.28E-09				3.93E-10	µCi/mL	GP	RADA-011
1	Uranium-235	7.77E-09±1.30E-09				3.00E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.00E-07±4.67E-09				2.99E-10	µCi/mL	GP	RADA-011

ESH-EMS-20010585

## WELL FEX 1TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.8  
 Sp. conductance: 580 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 11:23  
 Water temperature: 19.6°C  
 Air temperature: 24.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	16,400				15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<1.86	U	V		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	252				2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	1.82				0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	0.117	J	I		0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	6.54				1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<2.25	U	V		3.00	µg/L	GE	EPA6020
1	Cobalt, total recoverable	79.1				1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	21.8				1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	<25.0	U			25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<0.210	JU		4	2.00	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.737				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	19.5				2.00	µg/L	GE	EPA6020
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	U			2.00E-08	µg/L	GE	EPA9066
0	Selenium, total recoverable	7.23				5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<0.105	U	V		1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	0.568				0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Toluene	0.300	J	IL	OX	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	1.52	J	KL	COX	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<1.39	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	42.9				10.0	µg/L	GE	EPA6020
0	Actinium-228	1.90E-08±9.27E-09	R		4	1.26E-08	µCi/mL	GP	RADA-013
0	Actinium-228	1.52E-08±9.57E-09	R		4	1.20E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.28E-08±3.34E-09				8.92E-10	µCi/mL	GP	RADA-011
0	Antimony-125	2.05E-10±3.55E-09	U			6.01E-09	µCi/mL	GP	RADA-013
0	Antimony-125	5.42E-10±3.82E-09	U			6.72E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	7.66E-09±1.12E-08	U			2.00E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	5.60E-09±1.13E-08	U			2.06E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.63E-08±7.17E-09				4.61E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.73E-08±7.17E-09				4.24E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.92E-08±2.81E-08	U			4.75E-08	µCi/mL	GP	RADA-003
0	Carbon-14	5.74E-08±2.93E-08	J	I		4.73E-08	µCi/mL	GP	RADA-003
0	Cerium-144	-4.44E-09±1.05E-08	U			1.75E-08	µCi/mL	GP	RADA-013
0	Cesium-134	-3.72E-10±1.38E-09	U			2.12E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-1.20E-09±1.58E-09	U			2.20E-09	µCi/mL	GP	RADA-013



Well FEX 1TK collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cesium-137	-2.45E-10±1.29E-09	U			2.28E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-3.30E-10±1.44E-09	U			2.43E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	-2.73E-10±1.35E-09	U			2.28E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.93E-09±2.76E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.09E-10±1.49E-09	U			2.71E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			5.43E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.65E-08±3.92E-09	U			8.93E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.96E-10±3.93E-10	U			5.88E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.07E-10±4.13E-09	U			6.99E-09	µCi/mL	GP	RADA-013
0	Europium-152	2.49E-09±3.94E-09	U			7.13E-09	µCi/mL	GP	RADA-013
0	Europium-154	1.86E-09±3.63E-09	U			6.89E-09	µCi/mL	GP	RADA-013
0	Europium-154	5.09E-09±4.07E-09	U			8.03E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.75E-10±5.61E-09	U			9.77E-09	µCi/mL	GP	RADA-013
0	Europium-155	-5.32E-10±5.64E-09	U			9.64E-09	µCi/mL	GP	RADA-013
2	Iodine-129	7.38E-08±1.06E-08				3.10E-09	µCi/mL	GP	RADA-006
2	Iodine-129	7.02E-08±1.05E-08				3.45E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.55E-09±4.48E-09	J	I		4.27E-09	µCi/mL	GP	RADA-013
0	Lead-212	8.02E-09±5.22E-09	J	I		4.15E-09	µCi/mL	GP	RADA-013
0	Manganese-54	1.13E-10±1.35E-09	U			2.44E-09	µCi/mL	GP	RADA-013
0	Plutonium-238	3.19E-09±2.65E-09	U			4.22E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.78E-10±1.05E-09	U			2.82E-09	µCi/mL	GP	RADA-011
0	Potassium-40	2.34E-08±3.45E-08	U			2.23E-08	µCi/mL	GP	RADA-013
0	Potassium-40	1.19E-08±3.00E-08	U			2.77E-08	µCi/mL	GP	RADA-013
0	Promethium-144	5.45E-10±1.31E-09	U			2.31E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-1.09E-09±1.69E-09	U			2.70E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.82E-09±1.85E-09	U			3.37E-09	µCi/mL	GP	RADA-013
2	Radium-226	5.82E-09±8.53E-10				2.96E-10	µCi/mL	GP	RADA-008
2	Radium-226	6.85E-09±1.01E-09				4.86E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.40E-09±1.27E-09				1.60E-09	µCi/mL	GP	RADA-009
2	Radium-228	9.22E-09±1.12E-09				1.29E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	1.18E-08±1.50E-08	U			2.14E-08	µCi/mL	GP	RADA-013
0	Sodium-22	1.82E-09±1.45E-09	U			2.87E-09	µCi/mL	GP	RADA-013
2	Strontium-89/90	2.71E-07±6.88E-09				1.68E-09	µCi/mL	GP	RADA-004
0	Technetium-99	5.38E-08±1.22E-08				1.97E-08	µCi/mL	GP	RADA-005
0	Technetium-99	5.10E-08±1.20E-08				1.95E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.59E-09±1.78E-09	R		4	3.34E-09	µCi/mL	GP	RADA-013
0	Thallium-208	2.87E-11±2.67E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Thorium-228	-3.00E-16±1.09E-09	U			2.87E-09	µCi/mL	GP	RADA-012
0	Thorium-228	4.09E-11±1.01E-09	U			2.70E-09	µCi/mL	GP	RADA-012
0	Thorium-230	1.38E-09±1.09E-09	J	I		5.93E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.08E-10±5.93E-10	U			1.26E-09	µCi/mL	GP	RADA-012
0	Thorium-232	-1.42E-10±1.67E-10	U			1.37E-09	µCi/mL	GP	RADA-012
0	Thorium-232	0.00E+00±2.01E-09	U			6.08E-10	µCi/mL	GP	RADA-012
0	Thorium-234	1.70E-07±1.49E-07	J	I		1.20E-07	µCi/mL	GP	RADA-013
2	Tritium	1.89E-03±3.70E-05			5	3.25E-06	µCi/mL	GP	RADA-002
2	Tritium	2.02E-03±3.96E-05			5	3.42E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.15E-07±2.28E-08				1.82E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.24E-08±4.62E-09				1.04E-09	µCi/mL	GP	RADA-011
2	Uranium-238	2.08E-07±3.82E-08				1.03E-09	µCi/mL	GP	RADA-011
0	Yttrium-88	1.41E-09±3.35E-09	U			3.20E-09	µCi/mL	GP	RADA-013
0	Zinc-65	1.14E-09±2.67E-09	U			4.50E-09	µCi/mL	GP	RADA-013
0	Zinc-65	1.64E-09±3.08E-09	U			5.11E-09	µCi/mL	GP	RADA-013

## WELL FEX 10

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.5  
 Sp. conductance: 1,700 µS/cm  
 Turbidity: 4 NTU  
 The well was continuously pumping.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	18,800				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	19,300				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	252				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, dissolved	1.21	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.31	J	I		5.00	µg/L	GE	EPA6010B

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Well FEX 10 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	2.08	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	2,170				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	2,220				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	983				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.196	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
1	Cobalt, dissolved	53.9				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	55.4				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	78.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	46.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	920				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	943				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	19.3				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	19.6				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	61,000				2,500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	35,100				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	36,300				100	µg/L	GE	EPA6010B
0	Sulfate	6,430				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<30.0	JU	LV	C	50.0	µg/L	GE	EPA9056
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Trichloroethylene	4.07	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	1.51	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	58.8				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	42.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.52E-08±1.19E-08	R		4	1.83E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.59E-08±5.83E-09	J	I		5.43E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-1.35E-09±5.72E-09	U			8.83E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.34E-08±1.47E-08	U			2.87E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	1.52E-08±8.23E-09	J	I		6.07E-09	µCi/mL	GP	RADA-013
0	Carbon-14	0.00E+00±1.37E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.23E-09±2.12E-09	U			3.04E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.20E-09±3.14E-09	U			3.40E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	9.55E-10±2.06E-09	U			3.72E-09	µCi/mL	GP	RADA-013
0	Curium-242	7.88E-10±1.39E-09	U			2.92E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.73E-08±6.22E-09	J	I		6.18E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.62E-09±1.97E-09	U			3.44E-09	µCi/mL	GP	RADA-011
0	Europium-152	3.23E-10±5.64E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.52E-10±5.17E-09	U			9.75E-09	µCi/mL	GP	RADA-013
0	Europium-155	5.44E-09±1.25E-08	U			1.29E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.55E-07±3.08E-08			5	5.72E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	8.77E-08±1.14E-08				2.57E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.71E-09±3.79E-09	U			6.66E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	5.72E-07±2.42E-08				7.65E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	0.00E+00±2.00E-09	U			1.40E-10	µCi/mL	GP	RADA-011



Well FEX 10 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Plutonium-239/240	1.75E-11±7.12E-11	U	V		2.10E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.72E-08±2.27E-08	U			4.76E-08	µCi/mL	GP	RADA-013
0	Promethium-146	6.59E-10±2.36E-09	U			4.34E-09	µCi/mL	GP	RADA-013
0	Radium-226	2.00E-09±5.96E-10				3.97E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.63E-08±1.25E-09				9.98E-10	µCi/mL	GP	RADA-009
2	Strontium-90	1.50E-07±4.31E-09	J	K	I	9.92E-10	µCi/mL	GP	RADA-004
0	Technetium-99	4.85E-08±1.21E-08				1.97E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.31E-10±2.24E-09	U			4.07E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.66E-10±1.21E-10	U			2.00E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.36E-10±7.18E-11	J	I		5.20E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.47E-11±2.88E-11	U			2.47E-11	µCi/mL	GP	RADA-012
2	Tritium	2.09E-03±4.03E-05				4.48E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.35E-07±2.70E-08				8.33E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.52E-08±3.84E-09				7.80E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.37E-07±4.65E-08				6.40E-10	µCi/mL	GP	RADA-011

## WELL FEX 10

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 69.3 ft (21.12 m) below TOC  
 Water elevation: 196.7 ft (59.95 m) msl  
 pH: 3.6  
 Sp. conductance: 485 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 381 gal  
 The well was continuously pumping.

Time: 10:14  
 Water temperature: 23.5°C  
 Air temperature: 29.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	13.600				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	213				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.812	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.40	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,320				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	32.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	24.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	659				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	960				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	12.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	37,000				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	36,800				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	441				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	27,600				100	µg/L	GE	EPA6010B
0	Sulfate	4,340				200	µg/L	GE	EPA300.0
0	Sulfate	4,290				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	90.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	24.8				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.99E-09±1.11E-08	U			1.51E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.05E-08±1.62E-09				1.96E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.04E-09±1.90E-09	U			6.78E-11	µCi/mL	GP	RADA-011
0	Antimony-125	7.49E-10±5.19E-09	U			8.99E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.03E-09±2.70E-09	U			4.21E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.23E-08±5.71E-09	J	I		5.35E-09	µCi/mL	GP	RADA-013
0	Carbon-14	-4.39E-09±1.44E-08	U			2.53E-08	µCi/mL	GP	RADA-003
0	Cesium-134	6.54E-10±2.36E-09	U			2.70E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.60E-09±2.55E-09	U			3.32E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.19E-09±1.62E-09	U			3.32E-09	µCi/mL	GP	RADA-013
0	Curium-242	6.90E-11±1.22E-10	U			2.07E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.34E-08±1.83E-09				1.97E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	9.88E-10±5.37E-10	J	I		2.28E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.07E-10±5.52E-09	U			9.46E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FEX 10 collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Europium-154	6.87E-10±4.77E-09	U			8.92E-09	µCi/mL	GP	RADA-013
0	Europium-155	-2.23E-09±7.67E-09	U			1.32E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.10E-07±9.76E-08				6.65E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	5.43E-08±8.14E-09				4.10E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.82E-09±3.66E-09	U			6.49E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.25E-08±5.65E-09	J	I		6.22E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	3.77E-11±2.67E-10	U			7.03E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.86E-07±6.24E-08				1.20E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.44E-11±1.02E-10	U			2.23E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-2.58E-11±2.91E-11	U			2.48E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.29E-08±2.04E-08	R		4	2.54E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-3.16E-09±2.58E-09	U			3.97E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.29E-08±1.70E-09				2.63E-10	µCi/mL	GP	RADA-010
2	Radium-226	7.80E-09±1.16E-09				4.69E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.56E-08±1.59E-09	J	L	I	1.44E-09	µCi/mL	GP	RADA-009
2	Strontium-90	9.97E-08±3.09E-09			5	8.53E-10	µCi/mL	GP	RADA-004
0	Technetium-99	4.26E-08±1.35E-08	J	I		2.45E-08	µCi/mL	GP	RADA-005
0	Technetium-99	3.63E-08±1.13E-08	J	I		2.04E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.06E-09±2.01E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.05E-10±1.55E-10	U			2.88E-10	µCi/mL	GP	RADA-012
0	Thorium-230	8.48E-11±7.63E-11	U			1.12E-10	µCi/mL	GP	RADA-012
0	Thorium-232	3.78E-11±4.96E-11	U			8.29E-11	µCi/mL	GP	RADA-012
2	Tritium	1.65E-03±5.98E-06			5	4.09E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.33E-07±8.08E-09				8.83E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.34E-08±2.58E-09				8.85E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.36E-07±1.07E-08				3.81E-10	µCi/mL	GP	RADA-011

## WELL FEX 10

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 64.32 ft (19.6 m) below TOC  
 Water elevation: 201.68 ft (61.47 m) msl  
 pH: 3.9  
 Sp. conductance: 492 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 10:55  
 Water temperature: 21.9°C  
 Air temperature: 32.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	13,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	238				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.834	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.03	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,460				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	31.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	26.7				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	689				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	955				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	11.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	41,800				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	42,700				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	416				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	25,500				100	µg/L	GE	EPA6010B
0	Sulfate	3,520				200	µg/L	GE	EPA300.0
0	Sulfate	3,590				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<50.0	U			50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	29.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.79E-08±1.36E-08	R		4	1.74E-08	µCi/mL	GP	RADA-013

B-114

Second Quarter 2001



Well FEX 10 collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	2.70E-08±1.36E-08	R		4	2.15E-08	µCi/mL	GP	RADA-013
2	Americium-241	9.28E-09±2.21E-09				1.72E-09	µCi/mL	GP	RADA-011
0	Americium-243	6.79E-10±6.28E-09	U			4.72E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-1.33E-09±4.86E-09	U			8.11E-09	µCi/mL	GP	RADA-013
0	Antimony-125	-1.30E-09±5.32E-09	U			8.91E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.77E-09±2.18E-09	U			4.02E-09	µCi/mL	GP	RADA-013
0	Barium-133	-1.17E-09±2.92E-09	U			4.26E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.36E-08±7.29E-09	J	I		5.13E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.19E-08±7.19E-09	R		4	9.43E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.50E-08±1.48E-08	U			2.47E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.59E-09±1.80E-09	U			2.98E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-2.04E-10±1.66E-09	U			3.02E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.57E-09±3.75E-09	J	I		2.97E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.17E-09±1.88E-09	U			3.66E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	9.24E-10±1.68E-09	U			3.47E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-3.78E-10±2.17E-09	U			3.54E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.18E-09±6.97E-10	U			1.19E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.65E-08±2.91E-09				2.03E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.45E-09±9.40E-10	J	I		9.81E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.12E-09±5.29E-09	U			9.41E-09	µCi/mL	GP	RADA-013
0	Europium-152	-3.13E-09±5.41E-09	U			8.85E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.96E-09±4.78E-09	U			8.23E-09	µCi/mL	GP	RADA-013
0	Europium-154	9.30E-10±5.40E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Europium-155	6.80E-09±7.26E-09	U			1.35E-08	µCi/mL	GP	RADA-013
0	Europium-155	5.91E-10±7.32E-09	U			1.30E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.11E-07±1.54E-08			5	1.80E-09	µCi/mL	GP	EPA900.0
0	Iodine-129	4.26E-08±5.55E-09				4.15E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.94E-09±6.89E-09	U			7.11E-09	µCi/mL	GP	RADA-013
0	Lead-212	2.18E-09±5.12E-09	U			6.78E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.92E-09±6.01E-09	U			8.56E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.53E-09±7.47E-09	U			7.00E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.68E-10±1.91E-10	U			3.26E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.08E-07±7.83E-09				3.31E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.31E-11±1.79E-10	U			4.64E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.30E-10±7.66E-11	U			5.19E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.03E-08±2.22E-08	U			4.52E-08	µCi/mL	GP	RADA-013
0	Potassium-40	8.41E-09±3.95E-08	U			3.93E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.88E-10±2.42E-09	U			4.17E-09	µCi/mL	GP	RADA-013
0	Promethium-146	6.24E-10±2.28E-09	U			4.05E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.75E-08±2.48E-09				6.87E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.98E-08±1.87E-09				3.37E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.29E-08±1.28E-09	J	K	C	1.16E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.33E-07±5.72E-09				1.59E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.79E-08±1.40E-08	J	I		2.27E-08	µCi/mL	GP	RADA-005
0	Technetium-99	3.05E-08±1.42E-08	J	I		2.27E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.03E-09±2.01E-09	U			3.90E-09	µCi/mL	GP	RADA-013
0	Thallium-208	2.20E-09±2.05E-09	U			4.06E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.88E-10±8.48E-11	J	I		8.43E-11	µCi/mL	GP	RADA-012
0	Thorium-230	1.56E-10±8.03E-11	R		4	8.25E-11	µCi/mL	GP	RADA-012
0	Thorium-232	3.31E-11±3.83E-11	U			5.97E-11	µCi/mL	GP	RADA-012
2	Tritium	1.66E-03±4.34E-05			5	2.32E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.46E-07±7.21E-09				2.77E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.54E-08±2.35E-09				7.10E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.40E-07±9.23E-09				5.82E-10	µCi/mL	GP	RADA-011

## WELL FEX 10

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.5  
 Sp. conductance: 467 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 11:38  
 Water temperature: 23°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12,900				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	12,600				322	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	12,700				322	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B

Well FEX 10 collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	237				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	228				8.30	µg/L	WA	EPA6010B
0	Barium, total recoverable	228				8.30	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	0.808	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.970				0.900	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	0.930				0.900	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	1.68	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	0.990	J	I		4.10	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	1.20	J	I		4.10	µg/L	WA	EPA6010B
0	Calcium, total recoverable	1,570				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,480				296	µg/L	WA	EPA6010B
0	Calcium, total recoverable	1,490				296	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<11.0	U			11.0	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<11.0	U			11.0	µg/L	WA	EPA6010B
0	Cobalt, total recoverable	31.6				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	31.6				11.0	µg/L	WA	EPA6010B
0	Cobalt, total recoverable	32.0				11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	22.7				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	22.8				5.50	µg/L	WA	EPA6010B
0	Copper, total recoverable	23.0				5.50	µg/L	WA	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	1.76	J	I	X	15.2	µg/L	WA	EPA9014
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Iron, total recoverable	<192	U			192	µg/L	WA	EPA6010B
0	Iron, total recoverable	19.6	J	I		192	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Magnesium, total recoverable	739				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	701				170	µg/L	WA	EPA6010B
0	Magnesium, total recoverable	706				170	µg/L	WA	EPA6010B
2	Manganese, total recoverable	994				10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	978				1.50	µg/L	WA	EPA6010B
2	Manganese, total recoverable	980				1.50	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.120	J	I		0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	12.0				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	12.7				4.10	µg/L	WA	EPA6010B
0	Nickel, total recoverable	13.0				4.10	µg/L	WA	EPA6010B
2	Nitrate as nitrogen	44,300				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	199,000	J	Q	X	250	µg/L	WA	EPA9056
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<340	U		X	340	µg/L	WA	EPA9056
0	Potassium, total recoverable	356				100	µg/L	GE	EPA6010B
0	Potassium, total recoverable	449				112	µg/L	WA	EPA6010B
0	Potassium, total recoverable	461				112	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sodium, total recoverable	30,900				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	28,400				214	µg/L	WA	EPA6010B
0	Sodium, total recoverable	28,600				214	µg/L	WA	EPA6010B
0	Sulfate	3,260				200	µg/L	GE	EPA300.0
0	Sulfate	11,600				320	µg/L	WA	EPA9056
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<46.0	U			46.0	µg/L	WA	EPA6010B
0	Thallium, total recoverable	<46.0	U			46.0	µg/L	WA	EPA6010B
0	Total phosphates (as P)	<30.0	U	V		50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	23.6	J	IQ	X	101	µg/L	WA	EPA365.2
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.60	U			5.60	µg/L	WA	EPA6010B
0	Vanadium, total recoverable	<5.60	U			5.60	µg/L	WA	EPA6010B
0	Zinc, total recoverable	26.4				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	34.8	J	I		58.0	µg/L	WA	EPA6010B
0	Zinc, total recoverable	49.1	J	I		58.0	µg/L	WA	EPA6010B
0	Actinium-228	1.86E-08±1.80E-08	U			3.25E-08	µCi/mL	GP	RADA-013
0	Actinium-228	2.53E-08±1.38E-08	J	I		1.92E-08	µCi/mL	SC	SCA-337
2	Americium-241	8.97E-09±1.47E-09				5.02E-10	µCi/mL	GP	RADA-011



Well FEX 10 collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Americium-241	1.01E-08±2.83E-09				4.20E-10	µCi/mL	SC	SCA-330
0	Americium-243	1.71E-09±2.10E-09	U			2.15E-10	µCi/mL	GP	RADA-011
0	Antimony-125	8.21E-09±9.24E-09	U			1.74E-08	µCi/mL	GP	RADA-013
0	Barium-133	-4.85E-09±4.83E-09	U			6.64E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.93E-09±1.06E-08	U			1.46E-08	µCi/mL	GP	RADA-013
0	Carbon-14	-3.09E-09±2.71E-08	U			4.71E-08	µCi/mL	GP	RADA-003
0	Carbon-14	9.47E-10±4.46E-09	U			7.43E-09	µCi/mL	SC	SCA-320
0	Cesium-134	-1.52E-09±3.52E-09	U			6.15E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.16E-08±6.25E-09	J	I		6.04E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.50E-09±2.34E-09	U			4.29E-09	µCi/mL	SC	SCA-337
0	Cobalt-60	9.08E-10±4.03E-09	U			7.75E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.03E-09±2.38E-09	U			4.43E-09	µCi/mL	SC	SCA-337
0	Curium-242	5.27E-11±1.11E-10	U			3.66E-10	µCi/mL	GP	RADA-011
0	Curium-242	-6.90E-11±1.38E-10	U			7.50E-10	µCi/mL	SC	SCA-330
2	Curium-243/244	1.44E-08±1.85E-09				4.31E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	3.60E-10±3.15E-10	J	I		2.16E-10	µCi/mL	GP	RADA-011
0	Europium-152	-2.03E-09±1.06E-08	U			1.61E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.13E-08±1.14E-08	U			1.83E-08	µCi/mL	GP	RADA-013
0	Europium-155	-3.18E-09±1.19E-08	U			2.02E-08	µCi/mL	GP	RADA-013
0	Europium-155	-4.56E-07±6.34E-07	U			1.07E-06	µCi/mL	SC	SCA-337
2	Gross alpha	2.66E-07±1.41E-08			5	1.66E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	3.38E-07±2.40E-08				2.55E-09	µCi/mL	SC	SCA-335
2	Iodine-129	4.29E-08±6.83E-09				5.24E-09	µCi/mL	GP	RADA-006
2	Iodine-129	3.55E-08±5.50E-09				4.27E-09	µCi/mL	SC	SCA-344
0	Lead-212	6.40E-09±6.55E-09	U			1.21E-08	µCi/mL	GP	RADA-013
0	Lead-214	1.37E-08±1.12E-08	U			1.49E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-2.01E-11±2.14E-10	U			6.45E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	4.63E-10±4.64E-10	U	V		3.14E-10	µCi/mL	SC	SCA-341
2	Nonvolatile beta	4.06E-07±1.24E-08				3.41E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	3.74E-07±4.01E-08				2.46E-09	µCi/mL	SC	SCA-335
0	Plutonium-238	1.67E-12±9.05E-11	U			3.15E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	1.49E-10±1.00E-09	U			1.68E-09	µCi/mL	SC	SCA-330
0	Plutonium-239/240	6.66E-12±1.81E-10	U			5.04E-10	µCi/mL	GP	RADA-011
0	Potassium-40	6.37E-08±4.89E-08	U			1.02E-07	µCi/mL	GP	RADA-013
0	Potassium-40	1.46E-08±3.00E-08	U			5.89E-08	µCi/mL	SC	SCA-337
0	Promethium-146	-2.64E-09±4.06E-09	U			6.69E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-3.83E-08±2.68E-07	U			4.58E-07	µCi/mL	SC	SCA-337
2	Radium, total alpha-emitting	2.30E-08±1.75E-09				2.83E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	2.28E-08±2.76E-09				1.08E-09	µCi/mL	SC	SCA-334
2	Radium-226	1.69E-08±1.84E-09	J	L	C	6.13E-10	µCi/mL	GP	RADA-008
2	Radium-226	1.48E-08±5.05E-10				2.15E-10	µCi/mL	SC	SCA-318
2	Radium-228	1.69E-08±9.69E-10				8.29E-10	µCi/mL	GP	RADA-009
2	Radium-228	1.55E-08±1.43E-09				6.66E-10	µCi/mL	SC	SCA-319
2	Strontium-90	1.10E-07±2.85E-09			5	6.38E-10	µCi/mL	GP	RADA-004
2	Strontium-90	1.17E-07±3.67E-09				6.39E-10	µCi/mL	SC	SCA-333
0	Technetium-99	3.10E-08±1.02E-08	J	I		1.85E-08	µCi/mL	GP	RADA-005
0	Technetium-99	6.18E-08±3.66E-09				3.54E-09	µCi/mL	SC	SCA-342
0	Thallium-208	3.48E-09±4.08E-09	U			7.55E-09	µCi/mL	GP	RADA-013
0	Thorium-228	3.30E-10±1.78E-10	J	I		2.54E-10	µCi/mL	GP	RADA-012
0	Thorium-228	1.87E-10±1.72E-09	U			2.72E-09	µCi/mL	SC	SCA-330
0	Thorium-230	2.51E-12±7.86E-11	U			2.27E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.76E-10±5.72E-10	U			9.69E-10	µCi/mL	SC	SCA-330
0	Thorium-232	4.18E-11±5.79E-11	U			6.26E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.45E-10±4.50E-10	U			7.34E-10	µCi/mL	SC	SCA-330
2	Tritium	1.63E-03±3.20E-05			5	2.42E-06	µCi/mL	GP	RADA-002
2	Tritium	1.58E-03±7.91E-06				3.40E-07	µCi/mL	SC	SCA-339
2	Uranium-233/234	1.40E-07±7.52E-09				9.28E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.71E-08±2.64E-09				9.31E-10	µCi/mL	GP	RADA-011
1	Uranium-235	7.50E-09±2.81E-09				6.56E-10	µCi/mL	SC	SCA-330
2	Uranium-238	2.44E-07±9.92E-09				9.28E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.58E-07±3.06E-08				5.29E-10	µCi/mL	SC	SCA-330

## WELL FEX 10 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.5  
 Sp. conductance: 467 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 11:38  
 Water temperature: 23°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	13,200				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	242				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.857	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.79	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,680				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	33.2				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	23.6				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	769				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,040				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0953	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	13.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	42,300				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	362				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	31,500				100	µg/L	GE	EPA6010B
0	Sulfate	3,510				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<50.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	27.5				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.37E-08±2.89E-08	U			2.99E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.05E-08±1.72E-09				3.86E-10	µCi/mL	GP	RADA-011
2	Americium-241	9.83E-09±1.55E-09				3.35E-10	µCi/mL	GP	RADA-011
0	Americium-243	9.74E-10±2.22E-09	U			1.26E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.92E-09±2.12E-09	U			1.39E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-3.23E-09±8.13E-09	U			1.42E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.41E-09±4.12E-09	U			6.73E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.81E-09±6.82E-09	U			1.29E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.00E-08±2.92E-08	U			4.82E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-8.01E-10±3.26E-09	U			5.65E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.44E-09±3.31E-09	U			6.11E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.69E-10±3.47E-09	U			6.69E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			2.13E-10	µCi/mL	GP	RADA-011
0	Curium-242	8.19E-11±1.28E-10	U			2.46E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.25E-08±1.74E-09				3.36E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.26E-08±1.88E-09				3.87E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	8.11E-10±4.79E-10	J	I		2.21E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.27E-09±6.45E-10	R		4	2.55E-10	µCi/mL	GP	RADA-011
0	Europium-152	7.08E-09±9.35E-09	U			1.65E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.57E-09±1.01E-08	U			1.56E-08	µCi/mL	GP	RADA-013
0	Europium-155	5.52E-09±9.07E-09	U			1.63E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.01E-07±1.50E-08			5	2.36E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.68E-08±7.47E-09				2.68E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.33E-09±9.51E-09	U			1.10E-08	µCi/mL	GP	RADA-013
0	Lead-214	4.46E-09±1.20E-08	U			1.36E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.24E-11±9.43E-11	U			3.08E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.47E-07±1.30E-08				3.55E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			1.39E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	7.69E-11±1.06E-10	U			1.15E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-2.23E-11±3.09E-11	U			2.89E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.84E-11±7.53E-11	U			1.15E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.72E-08±4.56E-08	U			9.20E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.48E-09±3.75E-09	U			7.07E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.59E-08±1.93E-09				4.22E-10	µCi/mL	GP	RADA-010
2	Radium-226	2.19E-08±2.08E-09	J	L	C	5.48E-10	µCi/mL	GP	RADA-008
2	Radium-228	7.99E-09±8.46E-10				9.88E-10	µCi/mL	GP	RADA-009
2	Strontium-90	1.16E-07±2.41E-09			5	6.17E-10	µCi/mL	GP	RADA-004
0	Technetium-99	3.97E-08±1.15E-08	J	I		2.03E-08	µCi/mL	GP	RADA-005



Well FEX 10 collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thallium-208	1.35E-09±3.32E-09	U			6.11E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.29E-10±2.75E-10	U			5.08E-10	µCi/mL	GP	RADA-012
0	Thorium-228	4.02E-10±1.69E-10	J	I		2.39E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.44E-10±1.21E-10	U			1.59E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.29E-11±5.10E-11	U			1.00E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.47E-11±4.77E-11	U			1.33E-10	µCi/mL	GP	RADA-012
0	Thorium-232	4.03E-12±3.17E-11	U			1.00E-10	µCi/mL	GP	RADA-012
2	Tritium	1.53E-03±2.95E-05				2.26E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.48E-07±7.26E-09				4.89E-10	µCi/mL	GP	RADA-011
2	Uranium-233/234	1.40E-07±6.99E-09				6.88E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.72E-08±2.48E-09				2.79E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.56E-08±2.34E-09				4.82E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.46E-07±9.36E-09				6.44E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.31E-07±8.99E-09				5.66E-10	µCi/mL	GP	RADA-011

## WELL FEX 11

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.6  
 Sp. conductance: 844 µS/cm  
 Turbidity: 7 NTU  
 The well was continuously pumping.

Time: 11:35  
 Water temperature: 23.5°C  
 Air temperature: 29.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	13,200				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	13,500				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	259				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, dissolved	0.892	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.936	J	I		5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromofom	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	1.60	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	2,570				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	2,620				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	1,330				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.239	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, dissolved	27.9				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	28.7				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	19.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	20.2				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,040				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,060				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.176	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	15.0				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	14.3				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	56,000				2,500	µg/L	GE	EPA353.1

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Well FEX 11 collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	46,500				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	47,600				100	µg/L	GE	EPA6010B
0	Sulfate	4,050				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<50.0	JU	L	C	50.0	µg/L	GE	EPA9056
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	6.54	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	1.67	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	1.25	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	33.0				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	33.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	8.80E-09±1.43E-08	U			1.68E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.57E-08±4.30E-09				1.71E-09	µCi/mL	GP	RADA-011
0	Antimony-125	9.16E-10±5.28E-09	U			9.73E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.74E-10±1.51E-08	U			2.73E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	3.55E-10±6.45E-09	U			6.58E-09	µCi/mL	GP	RADA-013
0	Carbon-14	-4.63E-10±1.36E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.02E-10±1.93E-09	U			3.44E-09	µCi/mL	GP	RADA-013
0	Cesium-137	8.14E-09±4.12E-09	J	I		3.36E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.75E-09±2.48E-09	U			3.42E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.38E-10±5.18E-10	U			1.33E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	2.04E-08±3.82E-09				2.51E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.53E-09±8.93E-10	J	I		8.00E-10	µCi/mL	GP	RADA-011
0	Europium-152	4.90E-09±5.58E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-154	3.40E-09±8.38E-09	U			1.11E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.27E-09±7.23E-09	U			1.28E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.13E-07±3.23E-08			5	4.54E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.06E-08±5.57E-09				1.85E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.63E-09±3.91E-09	U			7.20E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	4.11E-07±2.05E-08				6.25E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	4.92E-11±9.86E-11	U			1.48E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	8.08E-11±1.27E-10	U	V		2.46E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.76E-08±2.48E-08	U			4.56E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.25E-09±2.57E-09	U			4.96E-09	µCi/mL	GP	RADA-013
2	Radium-226	9.47E-09±1.19E-09				3.59E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.89E-08±1.50E-09				1.25E-09	µCi/mL	GP	RADA-009
2	Strontium-90	7.11E-08±1.98E-09	J	K	I	5.07E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.88E-08±1.09E-08	J	I		2.04E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.70E-09±2.21E-09	U			4.36E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.16E-10±1.18E-10	U			2.06E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.70E-10±1.22E-10	U			1.86E-10	µCi/mL	GP	RADA-012
0	Thorium-232	9.41E-11±1.12E-10	U			2.03E-10	µCi/mL	GP	RADA-012
2	Tritium	1.90E-03±3.69E-05				4.26E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.49E-07±3.41E-08				9.95E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.27E-08±3.90E-09				7.58E-10	µCi/mL	GP	RADA-011
2	Uranium-238	4.32E-07±9.63E-08				4.30E-10	µCi/mL	GP	RADA-011

## WELL FEX 11

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 73.5 ft (22.4 m) below TOC  
 Water elevation: 202.5 ft (61.72 m) msl  
 pH: 3.3  
 Sp. conductance: 588 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 150 gal  
 The well was continuously pumping.

Time: 14:20  
 Water temperature: 26.4°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	14,800				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	268				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.21	J	I		5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FEX 11 collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cadmium, total recoverable	1.43	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	2,610				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	33.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	22.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,060				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,090				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.304				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	17.5				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	51,600				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	423				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	51,300				100	µg/L	GE	EPA6010B
0	Sulfate	3,790				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	31.1				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.35E-08±1.11E-08	U			1.65E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.88E-08±2.06E-09				1.16E-10	µCi/mL	GP	RADA-011
2	Americium-241	2.49E-08±1.77E-09				1.73E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.80E-09±1.49E-09	J	I		1.42E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.08E-09±1.39E-09	J	I		6.66E-11	µCi/mL	GP	RADA-011
0	Antimony-125	2.84E-09±4.82E-09	U			9.06E-09	µCi/mL	GP	RADA-013
0	Barium-133	-8.55E-10±2.65E-09	U			3.82E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.13E-08±6.84E-09	R		4	9.46E-09	µCi/mL	GP	RADA-013
0	Carbon-14	5.44E-10±1.45E-08				2.50E-08	µCi/mL	GP	RADA-003
0	Cesium-134	6.29E-10±1.95E-09				3.18E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.18E-09±3.36E-09	J	I		3.21E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.32E-09±2.11E-09	U			3.59E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.27E-10	µCi/mL	GP	RADA-011
0	Curium-242	<0.00E+00	U			1.04E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.22E-08±1.81E-09				1.16E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.04E-08±1.60E-09				9.84E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	1.66E-09±5.34E-10				1.34E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.40E-09±4.54E-10				2.01E-10	µCi/mL	GP	RADA-011
0	Europium-152	2.06E-09±5.68E-09	U			9.81E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.22E-09±5.37E-09	U			9.51E-09	µCi/mL	GP	RADA-013
0	Europium-155	2.63E-09±6.95E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.43E-07±1.32E-07				7.53E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	4.14E-08±5.45E-09				4.92E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.20E-09±5.24E-09	U			5.32E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.13E-08±6.18E-09	J	I		7.18E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.39E-11±1.48E-10	U			4.06E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.77E-07±8.31E-08				1.39E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-4.16E-11±3.08E-11	U			2.23E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	1.03E-10±1.31E-10	U			2.47E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.29E-11±5.12E-11	U			1.54E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.76E-11±7.99E-11	U			8.65E-11	µCi/mL	GP	RADA-011
0	Potassium-40	9.29E-09±2.84E-08	U			3.00E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-8.03E-10±2.27E-09	U			3.98E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.01E-08±1.58E-09				3.39E-10	µCi/mL	GP	RADA-010
2	Radium-226	7.51E-09±1.22E-09				4.68E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.87E-08±1.70E-09	J	L	I	1.43E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.00E-07±3.24E-09			5	1.08E-09	µCi/mL	GP	RADA-004
0	Technetium-99	3.39E-08±1.14E-08	J	I		2.10E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.12E-09±1.83E-09	U			3.60E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.69E-10±1.68E-10	U			3.34E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.13E-10±8.89E-11	J	I		9.84E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-6.12E-12±1.20E-11	U			9.84E-11	µCi/mL	GP	RADA-012
2	Tritium	1.89E-03±6.39E-06			5	4.07E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.56E-07±1.64E-08				2.38E-09	µCi/mL	GP	RADA-011
2	Uranium-233/234	1.36E-07±8.03E-09				2.16E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.37E-08±4.95E-09				3.14E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.97E-08±3.04E-09				3.66E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.76E-07±2.55E-08				3.40E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.63E-07±1.30E-08				1.33E-09	µCi/mL	GP	RADA-011

## WELL FEX 11

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 3.2  
 Sp. conductance: 629 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 11:33  
 Water temperature: 21.7°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	16,200	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	251	J	K	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.47	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.02	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,390			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	0.966	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	42.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	23.8				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U		5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,400			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,220			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.101	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	18.9				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	60,900				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	99.0				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	533	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	47,400	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	3,840				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I		50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	30.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	37.5				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.14E-08±1.21E-08	R		4	1.91E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.94E-08±2.42E-09				1.56E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.41E-09±5.52E-09	U			9.02E-09	µCi/mL	GP	RADA-013
0	Barium-133	-1.02E-09±2.74E-09	U			4.02E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.71E-08±7.64E-09	J	I		6.45E-09	µCi/mL	GP	RADA-013
0	Carbon-14	2.65E-08±2.89E-08	U			4.84E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.37E-09±1.75E-09	U			3.07E-09	µCi/mL	GP	RADA-013
0	Cesium-137	9.34E-09±4.48E-09	J	I		3.82E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.32E-10±2.43E-09	U			4.04E-09	µCi/mL	GP	RADA-013
2	Curium-243/244	2.81E-08±2.35E-09				1.56E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.99E-09±7.00E-10				4.62E-10	µCi/mL	GP	RADA-011
0	Europium-152	8.69E-10±6.26E-09	U			9.71E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.65E-09±5.12E-09	U			9.27E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.01E-09±7.37E-09	U			1.31E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.56E-07±2.14E-08			5	3.09E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	5.02E-08±8.30E-09				2.86E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.52E-09±4.85E-09	U			6.82E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.30E-08±8.01E-09	JU	IV		7.32E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	1.04E-10±2.04E-10	U			3.83E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.22E-07±1.01E-08				4.19E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.94E-11±1.09E-10	U			2.97E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.76E-11±2.44E-11	U			2.28E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.01E-08±3.53E-08	U			3.37E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.05E-09±2.52E-09	U			4.57E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.87E-08±2.48E-09				4.44E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.27E-08±1.51E-09				5.95E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.44E-08±1.71E-09	J	K	C	1.33E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.14E-07±5.13E-09				1.60E-09	µCi/mL	GP	RADA-004
0	Technetium-99	3.89E-08±1.45E-08	J	I		2.29E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.46E-09±2.16E-09	U			4.06E-09	µCi/mL	GP	RADA-013
0	Thorium-228	9.71E-11±1.28E-10	U			2.40E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.03E-10±6.32E-11	J	I		6.33E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.55E-12±2.20E-11	U			6.33E-11	µCi/mL	GP	RADA-012
2	Tritium	1.88E-03±4.94E-05			5	2.55E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.38E-07±7.82E-09				1.00E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.65E-08±2.73E-09				1.11E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.69E-07±1.28E-08				8.80E-10	µCi/mL	GP	RADA-011



## WELL FEX 11

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 74.8 ft (22.8 m) below TOC  
 Water elevation: 201.2 ft (61.33 m) msl  
 pH: 3.3  
 Sp. conductance: 661 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 42 gal  
 The well was continuously pumping.

Time: 12:50  
 Water temperature: 24.6°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	16,500				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	267				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.47	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	2.20	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	3,430				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	43.7				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	23.1				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	39.5	J	I		50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,390				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,210				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.525				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	20.0				5.00	µg/L	GE	EPA6010B
0	Nitrate as nitrogen	69,600				500	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	69,800				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	569				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	58,000				100	µg/L	GE	EPA6010B
0	Sulfate	3,880				200	µg/L	GE	EPA300.0
0	Sulfate	3,880				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<60.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	37.0				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.59E-08±1.80E-08	R		4	2.33E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.55E-08±2.26E-09				3.61E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.83E-09±1.98E-09	J	I		1.34E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-4.45E-09±6.70E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Barium-133	-2.14E-09±3.49E-09	U			5.54E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.32E-08±1.04E-08	R		4	1.29E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.38E-08±1.35E-08	U			2.26E-08	µCi/mL	GP	RADA-003
0	Carbon-14	2.02E-08±1.39E-08	U			2.28E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.52E-09±3.00E-09	U			4.39E-09	µCi/mL	GP	RADA-013
0	Cesium-137	9.95E-09±4.69E-09	J	I		5.04E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.52E-09±2.81E-09	U			5.43E-09	µCi/mL	GP	RADA-013
0	Curium-242	8.80E-11±1.33E-10	U			3.60E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.44E-08±2.20E-09				1.56E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.81E-09±6.47E-10	R		4	1.81E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.09E-09±7.72E-09	U			1.23E-08	µCi/mL	GP	RADA-013
0	Europium-154	-7.46E-10±6.74E-09	U			1.24E-08	µCi/mL	GP	RADA-013
0	Europium-155	-6.23E-09±8.19E-09	U			1.37E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.20E-07±1.09E-07				5.66E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	9.06E-08±1.52E-08				5.91E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.27E-09±6.86E-09	U	V		8.05E-09	µCi/mL	GP	RADA-013
0	Lead-214	1.04E-08±1.06E-08	U			1.02E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	6.13E-11±9.79E-11	U			1.84E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	4.95E-07±9.91E-08				1.36E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			8.95E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.98E-11±5.84E-11	U			8.94E-11	µCi/mL	GP	RADA-011
0	Potassium-40	9.06E-08±3.87E-08	R		4	7.57E-08	µCi/mL	GP	RADA-013
0	Promethium-146	5.44E-10±3.09E-09	U			5.55E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.96E-08±1.99E-09				3.57E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.78E-08±1.86E-09	J	L	C	4.64E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.34E-08±1.36E-09				1.02E-09	µCi/mL	GP	RADA-009
0	Strontium-90	9.28E-08±2.69E-09			5	7.14E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.09E-08±1.26E-08				1.91E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.79E-09±3.21E-09	U			6.00E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.46E-10±1.86E-10	J	I		1.35E-10	µCi/mL	GP	RADA-012

ESH-EMS-20010585

Well FEX 11 collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thorium-230	4.32E-11±7.45E-11	U			1.60E-10	µCi/mL	GP	RADA-012
0	Thorium-232	<0.00E+00	U			6.35E-11	µCi/mL	GP	RADA-012
2	Tritium	1.93E-03±3.74E-05			5	2.63E-06	µCi/mL	GP	RAD-002
2	Uranium-233/234	1.47E-07±8.11E-09				1.38E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.69E-08±2.76E-09				7.42E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.76E-07±1.29E-08				3.48E-10	µCi/mL	GP	RADA-011

## WELL FIN 2TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 698 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 9:57  
 Water temperature: 20.1°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1,990				15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<0.873	U	V		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	30.4				2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	0.250				0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	0.119	J	I		0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	0.640	J	I		1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<2.59	U	V		3.00	µg/L	GE	EPA6020
0	Cobalt, total recoverable	10.8				1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	3.21				1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	<49.0	U	V		25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.412				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	2.94				2.00	µg/L	GE	EPA6020
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<0.837	JU		4	5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	0.348	J	I		0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Toluene	0.256	J	I		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	1.24	J	K	C	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<0.487	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	5.56	J	I		10.0	µg/L	GE	EPA6020
0	Actinium-228	3.77E-09±8.42E-09	U			9.11E-09	µCi/mL	GP	RADA-013
0	Americium-241	1.37E-09±1.14E-09	J	I		6.86E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-8.49E-11±3.72E-09	U			6.45E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.82E-08±2.96E-08	J	I		4.72E-08	µCi/mL	GP	RADA-003
0	Cerium-144	-2.84E-09±1.00E-08	U			1.64E-08	µCi/mL	GP	RADA-013

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Well FIN 2TK collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cesium-134	-7.43E-10±1.32E-09	U			2.17E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.72E-10±1.33E-09	U			2.28E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	3.77E-10±1.28E-09	U			2.16E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.14E-10±1.97E-09	U			2.82E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			7.36E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	1.83E-09±1.32E-09	J	I		6.87E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	7.97E-10±9.26E-10	U			7.97E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.51E-10±4.15E-09	U			7.18E-09	µCi/mL	GP	RADA-013
0	Europium-154	-3.86E-09±3.87E-09	U			6.11E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.34E-09±5.50E-09	U			9.38E-09	µCi/mL	GP	RADA-013
2	Iodine-129	5.36E-08±8.70E-09			4	4.00E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.05E-09±2.79E-09	R			5.08E-09	µCi/mL	GP	RADA-013
0	Manganese-54	-1.22E-09±1.24E-09	U			2.06E-09	µCi/mL	GP	RADA-013
0	Plutonium-238	1.89E-09±3.39E-09	U			7.24E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-8.07E-11±9.16E-10	U			3.27E-09	µCi/mL	GP	RADA-011
0	Potassium-40	3.14E-08±2.76E-08	J	I		2.65E-08	µCi/mL	GP	RADA-013
0	Promethium-144	-8.59E-10±1.27E-09	U			2.05E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.04E-10±1.77E-09	U			3.07E-09	µCi/mL	GP	RADA-013
0	Radium-226	2.24E-09±5.58E-10				3.17E-10	µCi/mL	GP	RADA-008
1	Radium-228	2.56E-09±9.46E-10	J	I		1.65E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	-1.28E-08±1.29E-08	U			2.03E-08	µCi/mL	GP	RADA-013
0	Sodium-22	-1.38E-09±1.38E-09	U			2.18E-09	µCi/mL	GP	RADA-013
2	Strontium-89/90	4.08E-08±2.60E-09				1.43E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.08E-08±9.72E-09	J	I		1.93E-08	µCi/mL	GP	RADA-005
0	Thorium-228	-5.39E-10±1.16E-09	U			3.46E-09	µCi/mL	GP	RADA-012
0	Thorium-230	6.13E-11±4.74E-10	U			1.52E-09	µCi/mL	GP	RADA-012
0	Thorium-232	1.14E-10±4.63E-10	U			1.36E-09	µCi/mL	GP	RADA-012
0	Thorium-234	1.90E-07±1.78E-07	J	I		1.40E-07	µCi/mL	GP	RADA-013
2	Uranium-233/234	1.52E-08±3.96E-09				9.96E-10	µCi/mL	GP	RADA-011
0	Uranium-235	1.28E-09±1.02E-09	J	I		9.99E-10	µCi/mL	GP	RADA-011
2	Uranium-238	2.49E-08±5.46E-09				9.96E-10	µCi/mL	GP	RADA-011
0	Yttrium-88	-3.49E-10±1.39E-09	U			2.54E-09	µCi/mL	GP	RADA-013
0	Zinc-65	-6.74E-10±2.89E-09	U			5.08E-09	µCi/mL	GP	RADA-013

## WELL FIN 2TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 779 µS/cm  
 Turbidity: 0 NTU

The well was continuously pumping.

Time: 10:37  
 Water temperature: 20.5°C  
 Air temperature: 21.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1.800				15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<3.00	U			3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	87.1				2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	0.179	J	I		0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromofom	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	0.976	J	I		1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<1.86	U	V		3.00	µg/L	GE	EPA6020
0	Cobalt, total recoverable	24.7				1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	2.61				1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

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Well FIN 2TK collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	52.6				25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.285				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	8.96				2.00	µg/L	GE	EPA6020
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	<0.674	U	V		0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.853	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<1.70	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	4.50	J	I		10.0	µg/L	GE	EPA6020
0	Actinium-228	6.01E-09±8.76E-09				9.79E-09	µCi/mL	GP	RADA-013
0	Americium-241	4.89E-09±5.40E-09				1.01E-08	µCi/mL	GP	RADA-011
0	Antimony-125	1.21E-09±3.78E-09	U			6.87E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.84E-08±2.85E-08				4.69E-08	µCi/mL	GP	RADA-003
0	Cerium-144	2.11E-09±9.92E-09	U			1.71E-08	µCi/mL	GP	RADA-013
0	Cesium-134	1.45E-08±5.77E-09	R		4	2.16E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.86E-09±3.08E-09	J	I		2.59E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	-4.14E-11±1.24E-09	U			2.12E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.03E-10±1.45E-09	U			2.73E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.17E-09±9.19E-10				6.31E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	5.53E-09±5.39E-09	U			9.51E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	-1.87E-10±3.76E-10				4.11E-09	µCi/mL	GP	RADA-011
0	Europium-152	-2.34E-10±3.33E-09	U			7.20E-09	µCi/mL	GP	RADA-013
0	Europium-154	7.18E-10±4.12E-09	U			7.73E-09	µCi/mL	GP	RADA-013
0	Europium-155	6.80E-10±5.11E-09	U			8.87E-09	µCi/mL	GP	RADA-013
2	Iodine-129	3.04E-08±5.21E-09				2.86E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.35E-09±3.88E-09	U			4.36E-09	µCi/mL	GP	RADA-013
0	Manganese-54	3.56E-10±1.41E-09	U			2.53E-09	µCi/mL	GP	RADA-013
0	Plutonium-238	-8.60E-11±5.58E-10	U			1.68E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.46E-10±7.78E-10	U			1.89E-09	µCi/mL	GP	RADA-011
0	Potassium-40	1.91E-08±1.57E-08	U			3.20E-08	µCi/mL	GP	RADA-013
0	Promethium-144	-4.52E-10±1.26E-09	U			2.16E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.52E-09±1.79E-09	U			3.34E-09	µCi/mL	GP	RADA-013
2	Radium-226	5.33E-09±1.12E-09				6.81E-10	µCi/mL	GP	RADA-008
2	Radium-226	5.00E-09±9.47E-10				5.99E-10	µCi/mL	GP	RADA-008
1	Radium-228	3.34E-09±1.09E-09	J	I		1.95E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	7.92E-09±1.24E-08	U			2.30E-08	µCi/mL	GP	RADA-013
0	Sodium-22	2.45E-10±1.47E-09	U			2.76E-09	µCi/mL	GP	RADA-013
2	Strontium-89/90	1.55E-07±6.64E-09				2.46E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.56E-08±9.90E-09	U			2.06E-08	µCi/mL	GP	RADA-005
0	Thorium-228	5.02E-10±9.00E-10	U			1.92E-09	µCi/mL	GP	RADA-012
0	Thorium-228	5.17E-10±8.63E-10	U			1.80E-09	µCi/mL	GP	RADA-012
0	Thorium-230	-8.68E-10±9.48E-10	U			2.95E-09	µCi/mL	GP	RADA-012
0	Thorium-230	5.51E-10±8.53E-10	U			1.73E-09	µCi/mL	GP	RADA-012
0	Thorium-232	2.77E-10±4.55E-10	U			8.30E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-7.87E-11±1.13E-10	U			1.02E-09	µCi/mL	GP	RADA-012
0	Thorium-234	2.97E-08±1.12E-07	U			1.43E-07	µCi/mL	GP	RADA-013
1	Uranium-233/234	1.09E-08±3.00E-09				1.00E-09	µCi/mL	GP	RADA-011
0	Uranium-235	2.03E-09±1.20E-09	J	I		1.01E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.99E-08±4.39E-09				1.22E-09	µCi/mL	GP	RADA-011
0	Yttrium-88	1.33E-09±1.62E-09	U			3.33E-09	µCi/mL	GP	RADA-013
0	Zinc-65	1.60E-10±3.06E-09	U			5.64E-09	µCi/mL	GP	RADA-013

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Second Quarter 2001



## WELL FIN 2TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
Depth to water: Not available  
Water elevation: Not available  
pH: 3.5  
Sp. conductance: 669 µS/cm  
Turbidity: 1 NTU  
The well was continuously pumping.

Time: 15:14  
Water temperature: 22.2°C  
Air temperature: 28.5°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	146				15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<0.899	U	V		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	2.49				2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	<0.0490	JU	4		0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	<0.971	U			0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<0.152	JU	4		1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<1.37		V		3.00	µg/L	GE	EPA6020
0	Cobalt, total recoverable	0.880	J	I		1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	<41.5	U	V		25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.495				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	<0.0830	JU	4		2.00	µg/L	GE	EPA6020
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<0.258	JU	4		1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	0.633		V		0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<0.413	U	V		5.00	µg/L	GE	EPA6020
0	Toluene	<0.252	U	V		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.736	J	I		1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<0.913	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	<1.84	U	V		10.0	µg/L	GE	EPA6020
0	Actinium-228	7.65E-09±7.83E-09	U			1.46E-08	µCi/mL	GP	RADA-013
0	Americium-241	2.99E-10±5.99E-10	U			8.97E-10	µCi/mL	GP	RADA-011
0	Antimony-125	2.23E-10±5.00E-09	U			8.42E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.86E-08±1.39E-08	U			2.29E-08	µCi/mL	GP	RADA-003
0	Cerium-144	-3.41E-09±1.07E-08	U			1.81E-08	µCi/mL	GP	RADA-013
0	Cesium-134	-9.14E-10±2.01E-09	U			2.95E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.76E-09±1.95E-09	U			3.65E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	2.90E-10±1.30E-09	U			2.23E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.53E-11±3.36E-09	U			3.36E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			9.59E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	2.99E-10±6.00E-10	U			8.98E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	0.00E+00±2.00E-09	U			1.04E-09	µCi/mL	GP	RADA-011
0	Europium-152	-6.02E-09±5.16E-09	U			8.10E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.36E-09±5.92E-09	U			9.91E-09	µCi/mL	GP	RADA-013
0	Europium-155	-2.81E-10±5.44E-09	U			9.30E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FIN 2TK collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Iodine-129	1.37E-08±3.39E-09				2.37E-09	µCi/mL	GP	RADA-006
0	Lead-212	8.60E-09±3.60E-09	R	4		5.98E-09	µCi/mL	GP	RADA-013
0	Manganese-54	4.79E-11±1.89E-09	U			3.33E-09	µCi/mL	GP	RADA-013
0	Plutonium-238	-5.42E-10±1.42E-09	U			4.09E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.82E-10±1.06E-09	U			2.26E-09	µCi/mL	GP	RADA-011
0	Potassium-40	2.33E-08±2.23E-08	U			4.39E-08	µCi/mL	GP	RADA-013
0	Promethium-144	1.33E-10±1.91E-09	U			3.36E-09	µCi/mL	GP	RADA-013
0	Promethium-146	2.47E-10±2.23E-09	U			3.97E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.62E-09±4.96E-10				3.79E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.84E-09±1.58E-09	U			3.25E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	-1.78E-09±1.80E-08	U			3.14E-08	µCi/mL	GP	RADA-013
0	Sodium-22	-8.39E-10±2.12E-09	U			3.54E-09	µCi/mL	GP	RADA-013
0	Strontium-89/90	2.23E-09±1.29E-09	U			2.48E-09	µCi/mL	GP	RADA-004
0	Technetium-99	-2.09E-09±7.91E-09	U			1.99E-08	µCi/mL	GP	RADA-005
0	Thorium-228	-3.63E-10±7.87E-10	U			1.95E-09	µCi/mL	GP	RADA-012
0	Thorium-230	5.40E-10±6.07E-10	U			1.02E-09	µCi/mL	GP	RADA-012
0	Thorium-232	0.00E+00±2.01E-09	U			2.96E-10	µCi/mL	GP	RADA-012
0	Thorium-234	4.64E-08±7.49E-08	U			8.71E-08	µCi/mL	GP	RADA-013
0	Uranium-233/234	2.04E-09±1.38E-09	J	I		1.53E-09	µCi/mL	GP	RADA-011
0	Uranium-235	5.61E-10±7.15E-10	U			1.07E-09	µCi/mL	GP	RADA-011
0	Uranium-238	2.39E-09±1.44E-09	J	I		1.07E-09	µCi/mL	GP	RADA-011
0	Yttrium-88	-8.53E-10±2.10E-09	U			3.66E-09	µCi/mL	GP	RADA-013
0	Zinc-65	3.03E-09±6.40E-09	U			7.61E-09	µCi/mL	GP	RADA-013

## WELL FSB 76

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
Depth to water: 78 ft (23.77 m) below TOC  
Water elevation: 216.2 ft (65.9 m) msl  
pH: 4.6  
Sp. conductance: 76 µS/cm  
Turbidity: 5 NTU  
Water evacuated from the well prior to sampling: 48 gal

Time: 14:31  
Water temperature: 22.7°C  
Air temperature: 30.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	244				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.123	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0830	U	V		1.00	µg/L	GE	EPA6020
1	Lead, total recoverable	39.1				5.00	µg/L	GE	EPA6010B
1	Nitrate-nitrite as nitrogen	7.050				150	µg/L	GE	EPA353.1
0	pH	4.56	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	54.8				1.00	µS/cm	GE	EPA9050A
1	Gross alpha	1.05E-08±3.68E-09	J	I		3.37E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.40E-08±4.18E-09	J	I		6.67E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.82E-05±1.29E-06				5.77E-07	µCi/mL	GP	RADA-002

## WELL FSB 76A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
Depth to water: 139.82 ft (42.62 m) below TOC  
Water elevation: 154.08 ft (46.96 m) msl  
pH: 6.6  
Sp. conductance: 103 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 176 gal

Time: 10:59  
Water temperature: 21.2°C  
Air temperature: 26.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 38 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	47.0	J	I		50.0	µg/L	GE	EPA6010B
1	Aluminum, total recoverable	27.5	J	I		146	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<0.210	JU		4	1.60	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<0.0830	U	V		1.00	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	11.0	J	Q		20.0	pH	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	6.50	J	Q		0.100	pH	GE	EPA9040B

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Well FSB 76A collected on 04/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	pH	6.69	J	Q		0.100	pH	WA	EPA9040B
0	pH	6.64	J	Q		0.100	pH	WA	EPA9040B
0	Specific conductance	75.3				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	111				8.90	µS/cm	WA	EPA9050A
0	Gross alpha	7.01E-11±6.24E-10	U			1.77E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	9.70E-09±4.97E-09	U			1.56E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	6.38E-10±1.78E-09	U			4.10E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.51E-11±2.80E-09	U			1.40E-08	µCi/mL	ML	RADA-001
0	Tritium	-1.69E-07±4.08E-07	U			7.25E-07	µCi/mL	GP	RADA-002
0	Tritium	7.71E-07±3.59E-07	J	I		5.50E-07	µCi/mL	ML	RADA-002
0	Tritium	9.68E-07±3.76E-07	J	I		5.61E-07	µCi/mL	ML	RADA-002

**WELL FSB 76A Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 139.82 ft (42.62 m) below TOC  
 Water elevation: 154.08 ft (46.96 m) msl  
 pH: 6.6  
 Sp. conductance: 103 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 176 gal

Time: 10:59  
 Water temperature: 21.2°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 38 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	36.4	J	I		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	6.46	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	85.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.37E-10±7.55E-10	U			1.95E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.69E-10±1.54E-09	U			3.59E-09	µCi/mL	GP	EPA900.0
0	Tritium	-5.31E-07±3.90E-07	U			7.24E-07	µCi/mL	GP	RADA-002

**WELL FSB 76B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 143.43 ft (43.72 m) below TOC  
 Water elevation: 150.37 ft (45.83 m) msl  
 pH: 7  
 Sp. conductance: 116 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 82 gal

Time: 10:42  
 Water temperature: 20.5°C  
 Air temperature: 23.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 41 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	47.7	J	I		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.120	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	510				50.0	µg/L	GE	EPA353.1
0	pH	6.81	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.81	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	87.2				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	87.1				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.15E-10±1.49E-09	U			4.04E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.57E-09±3.16E-09	JU	L	I	6.65E-09	µCi/mL	GP	EPA900.0
0	Tritium	5.96E-08±4.21E-07	U			7.31E-07	µCi/mL	GP	RADA-002

**WELL FSB 76C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 82.21 ft (25.06 m) below TOC  
 Water elevation: 211.39 ft (64.43 m) msl  
 pH: 6.3  
 Sp. conductance: 52 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 87 gal

Time: 12:35  
 Water temperature: 21.7°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 15 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	44.8	J	I		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0760	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.140	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1,150				50.0	µg/L	GE	EPA353.1
0	pH	6.20	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	55.2				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-4.88E-10±1.11E-09	U			3.76E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.32E-09±3.00E-09	U			6.59E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.63E-06±5.95E-07				8.32E-07	µCi/mL	GP	RADA-002

**WELL FSB 77**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 62.23 ft (18.97 m) below TOC  
 Water elevation: 211.07 ft (64.33 m) msl  
 pH: 4.4  
 Sp. conductance: 500 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 44 gal

Time: 14:36  
 Water temperature: 19.8°C  
 Air temperature: 22.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1,510				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0820	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.338	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	46,800				1,250	µg/L	GE	EPA353.1
0	pH	4.06	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	402				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.48E-07±1.31E-08				3.18E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.14E-07±4.58E-09				1.77E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.77E-03±3.43E-05				4.14E-06	µCi/mL	GP	RADA-002

**WELL FSB 78**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 67.95 ft (20.71 m) below TOC  
 Water elevation: 204.65 ft (62.38 m) msl  
 pH: 3.8  
 Sp. conductance: 1,020 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 12:35  
 Water temperature: 25.3°C  
 Air temperature: 30.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	14,000				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.689				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.29				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	118,000				5,000	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	119,000				5,000	µg/L	GE	EPA353.1
1	pH	3.40	J	Q		0.100	pH	GE	EPA9040B
1	pH	3.39	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	111				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	5.24E-07±3.78E-08	J		I	9.77E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	4.48E-07±2.41E-08	J		I	3.49E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.82E-07±2.82E-08				7.37E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.85E-07±1.88E-08				4.86E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.41E-03±8.55E-05				5.65E-06	µCi/mL	GP	RADA-002
2	Tritium	4.54E-03±8.78E-05				5.60E-06	µCi/mL	GP	RADA-002



## WELL FSB 78

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 67.75 ft (20.65 m) below TOC  
 Water elevation: 204.85 ft (62.44 m) msl  
 pH: 3.6  
 Sp. conductance: 1,102 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 57 gal

Time: 13:57  
 Water temperature: 22.3°C  
 Air temperature: 30.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	14,300				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	14,400				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	220				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, dissolved	0.443	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.636	J	I		5.00	µg/L	GE	EPA6010B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	2.03	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	1,570				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,560	J	K	I	100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	2,420				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	1.79	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, dissolved	5.50				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	5.11				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	36.5				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	36.1				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	1.73	J	IL	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	1,130				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,110				20.0	µg/L	GE	EPA6010B
1	Mercury, total recoverable	1.57				0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	10.0				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	9.63				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	126,000				5,000	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.291	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	141,000				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	144,000				100	µg/L	GE	EPA6010B
0	Sulfate	11,100				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	0.332	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<130	U	V		50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	36.4				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	36.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.09E-08±1.33E-08				9.51E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FSB 78 collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Americium-241	3.27E-08±5.10E-09				1.54E-10	µCi/mL	GP	RADA-011
0	Antimony-125	1.39E-09±5.69E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	2.95E-09±1.35E-08	U			2.45E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	5.01E-09±6.97E-09	U			8.39E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.11E-07±1.72E-08				2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.74E-09±1.74E-09	U			3.30E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.34E-07±8.37E-09				3.32E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.61E-10±1.96E-09	U			3.65E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			1.79E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.61E-08±4.20E-09				1.54E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	2.49E-09±8.40E-10				1.78E-10	µCi/mL	GP	RADA-011
0	Europium-152	5.23E-10±5.92E-09	U			9.95E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.55E-09±3.74E-09	U			6.66E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.17E-09±7.47E-09	U			1.32E-08	µCi/mL	GP	RADA-013
2	Gross alpha	5.44E-07±1.01E-08				1.01E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	2.55E-07±3.19E-08				5.88E-09	µCi/mL	GP	RADA-006
0	Lead-212	6.61E-10±6.84E-09	U			7.29E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	5.94E-07±7.27E-09	J	K	I	2.01E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.36E-11±9.66E-11	U			2.44E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-7.75E-12±1.55E-11	U			1.70E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.34E-08±2.12E-08	U			4.12E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.01E-09±3.08E-09	U			4.53E-09	µCi/mL	GP	RADA-013
1	Radium-226	3.36E-09±7.43E-10				4.70E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.70E-08±1.64E-09				1.05E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.01E-07±2.77E-09			5	8.47E-10	µCi/mL	GP	RADA-004
0	Technetium-99	9.04E-08±1.50E-08				2.03E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.31E-09±2.17E-09	U			4.22E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.42E-09±4.37E-10				3.16E-10	µCi/mL	GP	RADA-012
0	Thorium-230	-9.82E-12±8.04E-11	U			2.16E-10	µCi/mL	GP	RADA-012
0	Thorium-232	6.42E-11±7.66E-11	U			1.16E-10	µCi/mL	GP	RADA-012
2	Uranium-233/234	1.29E-07±3.36E-08				3.27E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.58E-08±6.10E-09				2.98E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.44E-07±8.51E-08				2.40E-09	µCi/mL	GP	RADA-011

## WELL FSB 78

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 67.75 ft (20.65 m) below TOC  
 Water elevation: 204.85 ft (62.44 m) msl  
 pH: 3.6  
 Sp. conductance: 1,111 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 65 gal

Time: 12:16  
 Water temperature: 22.8°C  
 Air temperature: 34.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
2	Tritium	4.55E-03±1.20E-05				7.84E-07	µCi/mL	GP	RADA-002

B-123

Second Quarter 2001



## WELL FSB 78

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 67.6 ft (20.6 m) below TOC  
 Water elevation: 205 ft (62.48 m) msl  
 pH: 3.7  
 Sp. conductance: 971 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 15:28  
 Water temperature: 25.7°C  
 Air temperature: 36.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	14,900				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	233				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.621	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.60	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,600				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.04	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	4.94	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	35.1				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	640				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,060				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	739				10.0	µg/L	GE	EPA6010B
1	Mercury, total recoverable	1.29				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	11.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	105,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	549				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	143,000				100	µg/L	GE	EPA6010B
0	Sulfate	10,800				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<70.0	U		6	50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	1.37	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	31.8				5.00	µg/L	GE	EPA6010B
0	Actinium-228	4.10E-08±1.31E-08	R		4	2.13E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.75E-08±1.69E-09				1.89E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.16E-09±1.23E-09	U			1.69E-10	µCi/mL	GP	RADA-011
0	Antimony-125	2.94E-09±6.96E-09	U			9.58E-09	µCi/mL	GP	RADA-013
0	Barium-133	6.25E-10±2.68E-09	U			4.56E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.02E-08±7.21E-09	J	I		6.42E-09	µCi/mL	GP	RADA-013
0	Carbon-14	8.43E-08±1.74E-08				2.55E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.06E-10±1.67E-09	U			2.93E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.23E-07±7.54E-09				3.75E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.41E-09±1.53E-09	U			3.45E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.32E-11±7.39E-11	U			1.77E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	2.16E-08±1.50E-09				1.44E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	8.13E-10±3.16E-10				1.67E-10	µCi/mL	GP	RADA-011
0	Europium-152	5.93E-09±5.97E-09	U			1.07E-08	µCi/mL	GP	RADA-013
0	Europium-154	4.40E-09±4.07E-09	U			9.00E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.84E-09±7.54E-09	U			1.34E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.35E-07±1.27E-07				9.64E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	2.66E-07±3.25E-08				5.71E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.88E-09±5.57E-09	U			7.47E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.96E-09±7.56E-09	U			8.97E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	3.72E-10±3.21E-10	U			4.87E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.03E-07±8.11E-08				1.46E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			8.63E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			8.63E-11	µCi/mL	GP	RADA-011
0	Potassium-40	1.47E-08±3.33E-08	U			3.15E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-5.38E-10±2.69E-09	U			4.74E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.71E-08±2.11E-09				6.12E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	1.88E-08±2.25E-09				5.21E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.49E-09±9.40E-10				7.81E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.62E-08±1.86E-09	J	L	I	1.12E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.11E-07±3.53E-09			5	1.16E-09	µCi/mL	GP	RADA-004
0	Technetium-99	9.31E-08±1.52E-08				2.09E-08	µCi/mL	GP	RADA-005
0	Thallium-208	8.63E-10±3.11E-09	U			3.88E-09	µCi/mL	GP	RADA-013
0	Thorium-228	5.56E-10±2.12E-10	J	I		2.37E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.44E-11±1.11E-10	U			2.26E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.87E-11±6.77E-11	U			1.58E-10	µCi/mL	GP	RADA-012

Well FSB 78 collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	3.72E-03±9.60E-05			5	3.72E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.30E-07±8.12E-09				1.39E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.46E-08±2.85E-09				1.97E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.79E-07±1.39E-08				2.05E-09	µCi/mL	GP	RADA-011

## WELL FSB 78

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 68.22 ft (20.79 m) below TOC  
 Water elevation: 204.38 ft (62.3 m) msl  
 pH: 3.6  
 Sp. conductance: 989 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 12:45  
 Water temperature: 26.1°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	15,000	J	K	I	50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	14,700				322	µg/L	WA	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	4.40	J	I		42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	222	J	K	I	5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	221				8.30	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	0.540	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.660	U	V		0.900	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	1.62	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.20	J	I		4.10	µg/L	WA	EPA6010B
0	Calcium, total recoverable	1,630			5	100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,620				296	µg/L	WA	EPA6010B
0	Chromium, total recoverable	4.04	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	6.30	J	I		11.0	µg/L	WA	EPA6010B
0	Cobalt, total recoverable	4.94	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	4.90	J	I		11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	33.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	36.2				5.50	µg/L	WA	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<33.0	U		X	33.0	µg/L	WA	EPA9014
2	Iron, total recoverable	595			5	50.0	µg/L	GE	EPA6010B
2	Iron, total recoverable	1,030				192	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Magnesium, total recoverable	1,070			5	20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,030				170	µg/L	WA	EPA6010B
2	Manganese, total recoverable	774			5	10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	732				1.50	µg/L	WA	EPA6010B
1	Mercury, total recoverable	1.28	J	Q		0.200	µg/L	GE	EPA7470A
1	Mercury, total recoverable	1.45				0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	11.4				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	12.6				4.10	µg/L	WA	EPA6010B
2	Nitrate as nitrogen	103,000				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	103,000				1,000	µg/L	GE	EPA300.0
2	Nitrate as nitrogen	477,000	J	Q		25,000	µg/L	WA	EPA9056
0	Nitrite as nitrogen	96.0				50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	99.0				50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<1,700	U			1,700	µg/L	WA	EPA9056
0	Potassium, total recoverable	574	J	L	I	100	µg/L	GE	EPA6010B
0	Potassium, total recoverable	671				112	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.263	U	V		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sodium, total recoverable	138,000	J	K	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	120,000				1,070	µg/L	WA	EPA6010B
0	Sulfate	10,600				200	µg/L	GE	EPA300.0
0	Sulfate	10,800				200	µg/L	GE	EPA300.0
0	Sulfate	27,300				1,600	µg/L	WA	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<46.0	U			46.0	µg/L	WA	EPA6010B
0	Total phosphates (as P)	60.0				50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	34.2	J	I		101	µg/L	WA	EPA365.2
0	Total phosphates (as P)	36.1	J	I		101	µg/L	WA	EPA365.2



Well FSB 78 collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Vanadium, total recoverable	1.93	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	2.70	J	I		5.60	µg/L	WA	EPA6010B
0	Zinc, total recoverable	34.3				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	43.2	J	I		58.0	µg/L	WA	EPA6010B
0	Actinium-228	3.36E-08±1.93E-08	J	I		1.46E-08	µCi/mL	GP	RADA-013
0	Actinium-228	5.53E-08±1.63E-08	R		4	2.51E-08	µCi/mL	GP	RADA-013
0	Actinium-228	2.47E-08±1.49E-08	J	I		2.06E-08	µCi/mL	SC	SCA-337
2	Americium-241	2.73E-08±1.05E-09				3.15E-11	µCi/mL	GP	RADA-011
2	Americium-241	3.09E-08±1.27E-09				7.20E-11	µCi/mL	GP	RADA-011
2	Americium-241	2.90E-08±5.25E-09				3.51E-10	µCi/mL	SC	SCA-330
0	Americium-243	3.59E-10±6.02E-10	U			9.95E-12	µCi/mL	GP	RADA-011
0	Americium-243	3.47E-10±5.30E-10	U			1.63E-11	µCi/mL	GP	RADA-011
0	Antimony-125	-6.57E-10±7.03E-09	U			1.23E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-2.81E-10±7.04E-09	U			1.24E-08	µCi/mL	GP	RADA-013
0	Antimony-125	3.60E-09±6.63E-09	U			1.17E-08	µCi/mL	SC	SCA-337
0	Barium-133	-1.72E-09±3.46E-09	U			5.22E-09	µCi/mL	GP	RADA-013
0	Barium-133	2.41E-09±3.61E-09	U			5.60E-09	µCi/mL	GP	RADA-013
0	Barium-133	-9.27E-10±3.33E-09	U			4.99E-09	µCi/mL	SC	SCA-337
0	Bismuth-214	1.07E-08±9.58E-09	R		4	1.04E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.92E-09±1.11E-08	U			9.07E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	3.50E-08±9.66E-09	U			1.35E-08	µCi/mL	SC	SCA-337
0	Carbon-14	7.77E-08±1.65E-08				2.42E-08	µCi/mL	GP	RADA-003
0	Carbon-14	3.98E-09±4.51E-09	U			7.43E-09	µCi/mL	SC	SCA-320
0	Cesium-134	2.30E-11±2.50E-09	U			3.81E-09	µCi/mL	GP	RADA-013
0	Cesium-134	3.99E-10±2.57E-09	U			4.53E-09	µCi/mL	GP	RADA-013
0	Cesium-134	7.28E-10±2.71E-09	U			4.06E-09	µCi/mL	SC	SCA-337
1	Cesium-137	1.14E-07±8.62E-09				4.27E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.23E-07±8.62E-09				3.90E-09	µCi/mL	GP	RADA-013
0	Cesium-137	9.79E-08±1.17E-08				4.15E-09	µCi/mL	SC	SCA-337
0	Cobalt-60	-3.88E-10±2.85E-09	U			5.02E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.28E-09±2.60E-09	U			5.00E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-6.20E-10±2.45E-09	U			3.97E-09	µCi/mL	SC	SCA-337
0	Curium-242	1.14E-11±1.90E-11	U			3.41E-11	µCi/mL	GP	RADA-011
0	Curium-242	2.92E-11±3.45E-11	U			4.37E-11	µCi/mL	GP	RADA-011
0	Curium-242	<0.00E+00	U			3.54E-10	µCi/mL	SC	SCA-330
2	Curium-243/244	2.21E-08±9.41E-10				5.60E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	2.32E-08±1.09E-09				4.05E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	9.84E-10±2.15E-10	R		4	6.49E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	1.19E-09±2.68E-10	R		4	4.70E-11	µCi/mL	GP	RADA-011
0	Europium-152	-4.00E-11±6.77E-09	U			1.20E-08	µCi/mL	GP	RADA-013
0	Europium-152	1.60E-11±7.49E-09	U			1.25E-08	µCi/mL	GP	RADA-013
0	Europium-152	-2.56E-09±5.73E-09	U			9.62E-09	µCi/mL	SC	SCA-337
0	Europium-154	-3.03E-09±7.96E-09	U			1.37E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.07E-09±7.19E-09	U			1.42E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.71E-10±4.00E-09	U			6.83E-09	µCi/mL	SC	SCA-337
0	Europium-155	1.43E-08±1.02E-08	R		4	1.36E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.00E-09±7.59E-09	U			1.33E-08	µCi/mL	GP	RADA-013
0	Europium-155	3.52E-07±6.83E-07	U			1.20E-06	µCi/mL	SC	SCA-337
2	Gross alpha	6.98E-07±4.50E-08				2.26E-08	µCi/mL	GP	EPA900.0
2	Gross alpha	4.65E-07±3.35E-08				3.76E-09	µCi/mL	SC	SCA-335
2	Iodine-129	2.69E-07±8.34E-09				7.13E-09	µCi/mL	GP	RADA-006
2	Iodine-129	2.70E-07±1.27E-08				3.84E-09	µCi/mL	SC	SCA-344
0	Lead-212	1.98E-09±7.41E-09	U		V	8.03E-09	µCi/mL	GP	RADA-013
0	Lead-212	1.01E-08±4.58E-09	R		4	8.36E-09	µCi/mL	GP	RADA-013
0	Lead-212	9.72E-09±5.55E-09	J		I	7.17E-09	µCi/mL	SC	SCA-337
0	Lead-214	1.07E-08±1.24E-08	R		4	1.00E-08	µCi/mL	GP	RADA-013
0	Lead-214	8.78E-09±1.08E-08	U			1.04E-08	µCi/mL	GP	RADA-013
0	Lead-214	3.14E-08±9.46E-09				8.04E-09	µCi/mL	SC	SCA-337
0	Neptunium-237	2.43E-12±1.32E-10	JU		L	4.59E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	6.82E-10±6.59E-10	U			7.41E-10	µCi/mL	SC	SCA-341
2	Nonvolatile beta	7.60E-07±4.18E-08				5.19E-08	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	5.13E-07±5.41E-08				2.53E-09	µCi/mL	SC	SCA-335
0	Plutonium-238	1.55E-11±4.12E-11	U			1.08E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	3.64E-11±5.04E-11	U			5.45E-11	µCi/mL	GP	RADA-011
0	Plutonium-238	-4.24E-10±8.34E-10	U			1.66E-09	µCi/mL	SC	SCA-330
0	Plutonium-239/240	2.95E-11±4.08E-11	U			4.42E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.73E-11±4.74E-11	U			1.18E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.41E-08±5.31E-08	U			3.78E-08	µCi/mL	GP	RADA-013
0	Potassium-40	7.66E-08±6.24E-08	J		I	4.33E-08	µCi/mL	GP	RADA-013
0	Potassium-40	2.97E-08±3.55E-08	U			6.66E-08	µCi/mL	SC	SCA-337
0	Promethium-146	3.78E-10±4.23E-09	U			5.75E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-3.82E-10±3.39E-09	U			5.95E-09	µCi/mL	GP	RADA-013
0	Promethium-146	9.92E-08±3.38E-07	U			5.85E-07	µCi/mL	SC	SCA-337
2	Radium, total alpha-emitting	3.08E-08±2.63E-09				4.48E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	2.38E-08±2.34E-09				5.33E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	2.18E-08±2.22E-09				7.84E-10	µCi/mL	SC	SCA-334
1	Radium-226	3.52E-09±8.01E-10				4.19E-10	µCi/mL	GP	RADA-008
1	Radium-226	3.12E-09±2.38E-10				9.90E-11	µCi/mL	SC	SCA-318

Well FSB 78 collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Radium-228	3.82E-08±2.17E-09	J	K	C	1.23E-09	µCi/mL	GP	RADA-009
2	Radium-228	3.01E-08±1.99E-09	J	L	C	7.28E-10	µCi/mL	SC	SCA-319
2	Strontium-90	1.08E-07±4.82E-09				1.57E-09	µCi/mL	GP	RADA-004
2	Strontium-90	1.10E-07±3.52E-09				7.25E-10	µCi/mL	SC	SCA-333
0	Technetium-99	7.36E-08±1.55E-08				2.29E-08	µCi/mL	GP	RADA-005
0	Technetium-99	6.21E-08±3.50E-09				3.51E-09	µCi/mL	SC	SCA-342
0	Thallium-208	2.01E-09±4.89E-09	U			5.38E-09	µCi/mL	GP	RADA-013
0	Thallium-208	1.24E-11±4.34E-09	U			5.12E-09	µCi/mL	GP	RADA-013
0	Thallium-208	4.79E-09±3.23E-09	U			5.50E-09	µCi/mL	SC	SCA-337
0	Thorium-228	6.82E-10±1.82E-10				1.70E-10	µCi/mL	GP	RADA-012
0	Thorium-228	2.46E-10±1.53E-09	U			2.38E-09	µCi/mL	SC	SCA-330
0	Thorium-230	6.32E-11±6.89E-11	U			1.20E-10	µCi/mL	GP	RADA-012
0	Thorium-230	8.00E-11±2.88E-10	U			6.40E-10	µCi/mL	SC	SCA-330
0	Thorium-232	2.30E-11±4.24E-11	U			8.85E-11	µCi/mL	GP	RADA-012
0	Thorium-232	-5.30E-11±1.07E-10	U			6.39E-10	µCi/mL	SC	SCA-330
2	Tritium	3.66E-03±9.49E-05			5	3.72E-06	µCi/mL	GP	RADA-002
2	Tritium	3.68E-03±1.84E-05				5.08E-07	µCi/mL	SC	SCA-339
2	Uranium-233/234	1.31E-07±7.70E-09				1.35E-09	µCi/mL	GP	RADA-011
2	Uranium-233/234	1.27E-07±7.80E-09				9.42E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.95E-08±2.96E-09				3.52E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.74E-08±2.90E-09				7.78E-10	µCi/mL	GP	RADA-011
0	Uranium-235	5.82E-09±2.83E-09	J	I		8.76E-10	µCi/mL	SC	SCA-330
2	Uranium-238	3.63E-07±1.28E-08				8.84E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.89E-07±1.37E-08				7.76E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.75E-07±4.94E-08				1.25E-09	µCi/mL	SC	SCA-330

## WELL FSB 78 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
Depth to water: 68.22 ft (20.79 m) below TOC  
Water elevation: 204.38 ft (62.3 m) msl  
pH: 3.6  
Sp. conductance: 989 µS/cm  
Turbidity: 15 NTU  
Water evacuated from the well prior to sampling: 26 gal

Time: 12:45  
Water temperature: 26.1°C  
Air temperature: 35.4°C  
Total alkalinity (as CaCO3): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	14,500	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	216	J	K	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.484	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.54	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,750			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.97				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	5.00	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	32.6				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	273			5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	1,160			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	758			5	10.0	µg/L	GE	EPA6010B
1	Mercury, total recoverable	1.42	J	Q		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	11.0				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	97,100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	534	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	3.13	J	I		5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.514	U	V		5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	133,000	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	10,400				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	60.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	1.23	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	33.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.80E-08±2.16E-08	U			2.92E-08	µCi/mL	GP	RADA-013
2	Americium-241	3.34E-08±1.34E-08	U			8.83E-11	µCi/mL	GP	RADA-011
0	Americium-243	4.95E-10±6.20E-10	U			1.35E-11	µCi/mL	GP	RADA-011
0	Antimony-125	3.09E-09±8.82E-09	U			1.53E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.98E-09±3.78E-09	U			6.16E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.67E-09±1.01E-08	U			1.25E-08	µCi/mL	GP	RADA-013
0	Carbon-14	8.11E-08±1.66E-08	U			2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.34E-09±2.89E-09	U			5.36E-09	µCi/mL	GP	RADA-013



Well FSB 78 collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Cesium-137	1.14E-07±1.49E-08				5.06E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.25E-09±3.30E-09	U			5.68E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.51E-11±2.54E-11	U			4.54E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	2.63E-08±1.18E-09				4.21E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	1.07E-09±2.59E-10	R		4	4.88E-11	µCi/mL	GP	RADA-011
0	Europium-152	-9.03E-10±9.57E-09	U			1.44E-08	µCi/mL	GP	RADA-013
0	Europium-154	4.01E-09±8.11E-09	U			1.59E-08	µCi/mL	GP	RADA-013
0	Europium-155	8.78E-09±1.01E-08	U			1.83E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.66E-07±2.17E-08			5	2.57E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	2.56E-07±3.01E-08				2.51E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.79E-09±6.62E-09	U	V		1.05E-08	µCi/mL	GP	RADA-013
0	Lead-214	7.64E-09±6.63E-09	U			1.20E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.80E-10±3.54E-10	JU	L	C	8.04E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.42E-07±8.61E-09				3.50E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.53E-10±1.38E-10	J	I		1.17E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.51E-11±4.39E-11	U			1.51E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.93E-08±6.03E-08	U			4.83E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.44E-09±3.99E-09	U			6.53E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	2.37E-08±2.31E-09				4.36E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.84E-09±9.97E-10				5.76E-10	µCi/mL	GP	RADA-008
2	Radium-228	3.37E-08±1.90E-09	J	K	C	1.09E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.15E-07±5.15E-09				1.51E-09	µCi/mL	GP	RADA-004
0	Technetium-99	7.53E-08±1.60E-08				2.36E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.97E-09±3.40E-09	U			6.55E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.35E-10±1.65E-10				1.76E-10	µCi/mL	GP	RADA-012
0	Thorium-230	8.07E-11±6.54E-11	U			9.89E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.90E-11±2.64E-11	U			2.86E-11	µCi/mL	GP	RADA-012
2	Tritium	3.60E-03±6.88E-05			5	3.73E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.21E-07±7.77E-09				1.22E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.60E-08±2.83E-09				6.86E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.77E-07±1.37E-08				8.07E-10	µCi/mL	GP	RADA-011

## WELL FSB 78

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: 68.5 ft (20.88 m) below TOC  
 Water elevation: 204.1 ft (62.21 m) msl  
 pH: 3.6  
 Sp. conductance: 856 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 12:27  
 Water temperature: 22.6°C  
 Air temperature: 32.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12.000				50.0	µg/L	GE	EPA6010B
2	Antimony, total recoverable	10.0				10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	200				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.75	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1.460				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	2.21	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	5.38				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	28.8				5.00	µg/L	GE	EPA6010B
0	Cyanide	<3.19	JU	QV		5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	49.7	J	I		50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	923				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	617				10.0	µg/L	GE	EPA6010B
2	Mercury, total recoverable	2.49				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	10.7				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	77.100				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	829				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<2.37	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	105,000				100	µg/L	GE	EPA6010B
0	Sulfate	9,710				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	29.2				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.98E-08±2.78E-08	U			3.57E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.14E-08±9.39E-10				8.80E-11	µCi/mL	GP	RADA-011

ESH-EMS-20010585

Well FSB 78 collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
00	Antimony-125	-3.75E-09±1.05E-08	U			1.73E-08	µCi/mL	GP	RADA-013
0	Barium-133	2.71E-09±5.22E-09	U			8.45E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.86E-09±1.18E-08	U			1.57E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.04E-08±2.78E-08	U			4.74E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.05E-09±5.08E-09	U			6.32E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.08E-07±1.64E-08				7.05E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.35E-09±4.10E-09	U			8.53E-09	µCi/mL	GP	RADA-013
0	Curium-242	-2.86E-12±4.95E-12	U			6.08E-11	µCi/mL	GP	RADA-011
2	Curium-243/244	1.69E-08±8.31E-10				3.22E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	9.34E-10±2.11E-10	R		4	3.74E-11	µCi/mL	GP	RADA-011
0	Europium-152	-1.23E-09±1.04E-08	U			1.77E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.96E-09±1.07E-08	U			2.19E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.08E-08±1.20E-08	U			2.21E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.29E-07±4.21E-08				2.07E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.52E-07±2.09E-08				6.54E-09	µCi/mL	GP	RADA-006
2	Iodine-129	1.59E-07±2.09E-08				5.74E-09	µCi/mL	GP	RADA-006
0	Lead-212	8.13E-09±8.25E-09	U	V		1.29E-08	µCi/mL	GP	RADA-013
0	Lead-214	2.99E-09±1.32E-08	U			1.60E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-2.82E-11±1.46E-10	JU	L	C	5.50E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	-1.42E-11±1.57E-10	JU	L	C	5.73E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.47E-07±3.92E-08				4.92E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.83E-11±5.30E-11	U			5.74E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.18E-11±5.44E-11	U			7.28E-11	µCi/mL	GP	RADA-011
0	Potassium-40	9.39E-08±5.10E-08	U			1.13E-07	µCi/mL	GP	RADA-013
0	Promethium-146	-1.59E-09±5.49E-09	U			9.08E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.41E-08±1.37E-09				2.83E-10	µCi/mL	GP	RADA-010
1	Radium-226	4.19E-09±9.29E-10	J	L	C	6.31E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.44E-08±2.04E-09				1.49E-09	µCi/mL	GP	RADA-009
2	Radium-228	2.02E-08±2.67E-09				2.41E-09	µCi/mL	GP	RADA-009
2	Strontium-90	1.03E-07±4.69E-09				1.58E-09	µCi/mL	GP	RADA-004
0	Technetium-99	5.04E-08±1.15E-08				1.82E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.20E-09±8.29E-09	U			8.46E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.80E-10±1.65E-10	J	I		2.18E-10	µCi/mL	GP	RADA-012
0	Thorium-230	-5.90E-12±5.82E-11	U			1.48E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.84E-11±5.21E-11	U			6.70E-11	µCi/mL	GP	RADA-012
2	Tritium	2.86E-03±5.50E-05			5	3.32E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.28E-07±7.73E-09				6.41E-10	µCi/mL	GP	RADA-011
2	Uranium-235	1.81E-08±2.91E-09				6.43E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.96E-07±1.36E-08				3.64E-10	µCi/mL	GP	RADA-011

## WELL FSB 78A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 117.7 ft (35.88 m) below TOC  
 Water elevation: 154.9 ft (47.21 m) msl  
 pH: 6.4  
 Sp. conductance: 101 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 189 gal

Time: 15:44  
 Water temperature: 20.9°C  
 Air temperature: 26.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 33 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.126	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	190				50.0	µg/L	GE	EPA353.1
0	pH	6.46	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	73.4				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	73.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-5.15E-10±9.29E-10	U			3.53E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.53E-09±2.19E-09	U			5.93E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.79E-06±4.92E-07				5.96E-07	µCi/mL	GP	RADA-002

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## WELL FSB 78B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 120.17 ft (36.63 m) below TOC  
 Water elevation: 152.63 ft (46.52 m) msl  
 pH: 7.4  
 Sp. conductance: 266 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 111 gal

Time: 12:29  
 Water temperature: 21.8°C  
 Air temperature: 27.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 71 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	36.5	J	I	50.0		µg/L	GE	EPA6010B
1	Aluminum, total recoverable	31.5	J	I	146		µg/L	WA	EPA6010B
0	Beryllium, total recoverable	<0.200	U		0.200		µg/L	GE	EPA6020
0	Beryllium, total recoverable	<0.240	JU		1.60		µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<0.127	U	V	1.00		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<4.70	U		4.70		µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U		47.0		µg/L	WA	EPA6010B
2	Nitrate-nitrite as nitrogen	13,600			250		µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	14,200			1,000		µg/L	WA	EPA353.2
0	pH	7.23	J	Q	0.100		pH	GE	EPA9040B
0	pH	7.39	J	Q	0.100		pH	WA	EPA9040B
0	Specific conductance	214			1.00		µS/cm	GE	EPA9050A
1	Specific conductance	251			8.90		µS/cm	WA	EPA9050A
0	Gross alpha	3.31E-09±2.75E-09	U		4.89E-09		µCi/mL	GP	EPA900.0
0	Gross alpha	6.24E-09±4.48E-09	U		1.71E-08		µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.08E-08±4.30E-09	J	IL	7.89E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.52E-09±2.56E-09	U	I	1.46E-08		µCi/mL	ML	RADA-001
2	Tritium	4.41E-04±4.15E-06			7.40E-07		µCi/mL	GP	RADA-002
2	Tritium	3.84E-04±4.07E-06			5.52E-07		µCi/mL	ML	RADA-002

## WELL FSB 78B Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 120.17 ft (36.63 m) below TOC  
 Water elevation: 152.63 ft (46.52 m) msl  
 pH: 7.4  
 Sp. conductance: 266 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 111 gal

Time: 12:29  
 Water temperature: 21.8°C  
 Air temperature: 27.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 71 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U		50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U		0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.113	U	V	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	12,800			250		µg/L	GE	EPA353.1
0	pH	7.25	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	175			1.00		µS/cm	GE	EPA9050A
0	Gross alpha	9.01E-10±1.37E-09	U		2.87E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.02E-08±2.44E-09			3.53E-09		µCi/mL	GP	EPA900.0
2	Tritium	4.43E-04±4.13E-06			7.31E-07		µCi/mL	GP	RADA-002

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 70.5 ft (21.49 m) below TOC  
 Water elevation: 203 ft (61.88 m) msl  
 pH: 4.2  
 Sp. conductance: 2,249 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 85 gal

Time: 10:42  
 Water temperature: 26.7°C  
 Air temperature: 25.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	37,200			50.0		µg/L	GE	EPA6010B
2	Beryllium, total recoverable	31.0			0.200		µg/L	GE	EPA6020
2	Cadmium, total recoverable	19.4			1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	13.3			5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	324,000			10,000		µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	324,000			10,000		µg/L	GE	EPA353.1
1	pH	3.98	J	Q	0.100		pH	GE	EPA9040B
2	Specific conductance	1,740			1.00		µS/cm	GE	EPA9050A
2	Specific conductance	1,740			1.00		µS/cm	GE	EPA9050A
2	Gross alpha	2.42E-07±2.72E-08			9.64E-09		µCi/mL	GP	EPA900.0
2	Gross alpha	2.29E-07±3.74E-08			1.20E-08		µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.78E-06±5.03E-08			1.52E-08		µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.56E-06±6.68E-08			1.95E-08		µCi/mL	GP	EPA900.0
2	Tritium	9.82E-03±1.83E-09			8.67E-06		µCi/mL	GP	RADA-002

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 70.81 ft (21.58 m) below TOC  
 Water elevation: 202.69 ft (61.78 m) msl  
 pH: 4  
 Sp. conductance: 2,268 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 8:50  
 Water temperature: 20.2°C  
 Air temperature: 23.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	33,900			50.0		µg/L	GE	EPA6010B
2	Aluminum, total recoverable	34,600			50.0		µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U		10.0		µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U		10.0		µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Barium, total recoverable	658			5.00		µg/L	GE	EPA6010B
2	Beryllium, dissolved	24.3			5.00		µg/L	GE	EPA6010B
2	Beryllium, total recoverable	26.5			5.00		µg/L	GE	EPA6010B
2	Cadmium, total recoverable	16.2			5.00		µg/L	GE	EPA6010B
0	Calcium, dissolved	153,000			100		µg/L	GE	EPA6010B
0	Calcium, total recoverable	150,000	J	K	I	100	µg/L	GE	EPA6010B
0	Chloride	2,350			100		µg/L	GE	EPA9056
0	Chloride	2,450			100		µg/L	GE	EPA9056
0	Chromium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
2	Cobalt, dissolved	284			5.00		µg/L	GE	EPA6010B
2	Cobalt, total recoverable	273			5.00		µg/L	GE	EPA6010B
0	Copper, dissolved	18.9			5.00		µg/L	GE	EPA6010B
0	Copper, total recoverable	19.9			5.00		µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Lead, total recoverable	7.40			5.00		µg/L	GE	EPA6010B
0	Magnesium, dissolved	27,500			20.0		µg/L	GE	EPA6010B
0	Magnesium, total recoverable	26,600			20.0		µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.315			0.200		µg/L	GE	EPA7470A
2	Nickel, dissolved	125			5.00		µg/L	GE	EPA6010B
2	Nickel, total recoverable	121			5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	289,000			5,000		µg/L	GE	EPA353.1
0	Phenols	<5.00	JU	Q	5.00		µg/L	GE	EPA9066
0	Phenols	<5.00	JU	Q	5.00		µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Sodium, dissolved	122,000			100		µg/L	GE	EPA6010B
0	Sodium, total recoverable	125,000			100		µg/L	GE	EPA6010B



Well FSB 78C collected on 05/24/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Sulfate	<200	U			200	µg/L	GE	EPA9056
0	Sulfate	<200	U			200	µg/L	GE	EPA9056
0	Thallium, dissolved	<10.0				10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<6.55	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	160				50.0	µg/L	GE	EPA365.4
0	Total phosphates (as P)	<150	U	V		50.0	µg/L	GE	EPA365.4
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	564				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	546				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.59E-08±9.95E-09	U			1.67E-08	µCi/mL	GP	RADA-013
0	Actinium-228	1.20E-08±1.47E-08	U			1.82E-08	µCi/mL	GP	RADA-013
0	Americium-241	-7.79E-11±1.57E-10	U			1.71E-09	µCi/mL	GP	RADA-011
0	Americium-241	4.73E-10±1.16E-09	U			2.61E-09	µCi/mL	GP	RADA-011
0	Antimony-125	2.33E-10±4.99E-09	U			9.00E-09	µCi/mL	GP	RADA-013
0	Antimony-125	-4.31E-09±4.76E-09	U			7.94E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	-3.94E-09±1.44E-08	U			2.48E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	-1.26E-09±1.35E-08	U			2.35E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	4.89E-08±7.25E-09				5.69E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.99E-08±8.50E-09				5.46E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.26E-08±1.58E-08				2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.56E-10±1.76E-09	U			2.84E-09	µCi/mL	GP	RADA-013
0	Cesium-134	6.35E-10±1.84E-09	U			2.94E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-5.76E-10±2.02E-09	U			3.04E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.64E-10±1.88E-09	U			3.38E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.62E-09±3.34E-09	J	I		3.06E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.44E-09±2.48E-09	U			2.88E-09	µCi/mL	GP	RADA-013
0	Curium-242	-9.37E-11±1.89E-10	U			2.06E-09	µCi/mL	GP	RADA-011
0	Curium-242	6.66E-10±8.42E-10	U			1.41E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	-2.03E-10±9.43E-10	U		5	2.62E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.96E-10±7.98E-10	U			2.34E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	7.44E-10±9.16E-10	U			1.59E-09	µCi/mL	GP	RADA-011
0	Europium-152	1.15E-11±5.54E-09	U			9.33E-09	µCi/mL	GP	RADA-013
0	Europium-152	-3.76E-09±5.05E-09	U			8.64E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.05E-09±5.19E-09	U			9.42E-09	µCi/mL	GP	RADA-013
0	Europium-154	3.46E-09±4.46E-09	U			9.16E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.78E-10±7.15E-09	U			1.25E-08	µCi/mL	GP	RADA-013
0	Europium-155	8.13E-11±7.07E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.04E-07±1.09E-08				2.44E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	1.28E-07±1.59E-08				3.00E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.45E-09±3.84E-09	U			6.91E-09	µCi/mL	GP	RADA-013
0	Lead-212	1.32E-09±5.18E-09	U			6.43E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.57E-06±1.64E-08	J	K	I	4.17E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.15E-10±1.06E-10	U			4.63E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.99E-11±1.13E-10	U			3.02E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.10E-08±2.03E-08	U			4.36E-08	µCi/mL	GP	RADA-013
0	Potassium-40	4.38E-08±2.35E-08	U			4.94E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.28E-09±2.15E-09	U			3.70E-09	µCi/mL	GP	RADA-013
0	Promethium-146	3.50E-10±2.18E-09	U			3.92E-09	µCi/mL	GP	RADA-013
2	Radium-226	5.74E-08±3.00E-09				5.73E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.74E-08±1.32E-09				1.19E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.30E-07±5.06E-09			5	5.91E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.85E-07±2.50E-08				2.24E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.75E-11±3.27E-09	U			3.41E-09	µCi/mL	GP	RADA-013
0	Thallium-208	7.00E-09±4.62E-09	R		4	3.47E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.94E-10±1.80E-10	J	I		2.67E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.14E-11±8.27E-11	U			1.60E-10	µCi/mL	GP	RADA-012
0	Thorium-232	3.23E-11±5.69E-11	U			1.13E-10	µCi/mL	GP	RADA-012
2	Uranium-233/234	1.21E-07±2.29E-08				1.30E-09	µCi/mL	GP	RADA-011
1	Uranium-235	8.00E-09±2.68E-09				1.01E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.37E-07±2.58E-08				4.83E-10	µCi/mL	GP	RADA-011

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 70.89 ft (21.61 m) below TOC  
 Water elevation: 202.61 ft (61.76 m) msl  
 pH: 4  
 Sp. conductance: 2,224 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:05  
 Water temperature: 21.8°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bis(2-ethylhexyl) phthalate	<0.971	U			0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.416	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tritium	9.50E-03±1.75E-05				7.93E-07	µCi/mL	GP	RADA-002

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 73.93 ft (22.53 m) below TOC  
 Water elevation: 199.57 ft (60.83 m) msl  
 pH: 4  
 Sp. conductance: 210 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 77 gal

Time: 16:08  
 Water temperature: 25.8°C  
 Air temperature: 36.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	31,800				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<3.93	JU		4	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	663				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	26.3				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	15.7				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	169,000				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	6.21				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	262				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	17.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA3012A
0	Iron, total recoverable	89.7				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	5.48				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	29,200				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	6,170				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0928	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	132				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	266,000				2,500	µg/L	GE	EPA300.0



Well FSB 78C collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	3,350				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	133,000				100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	7.04	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	100				50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	100				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	619				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.84E-08±8.92E-09	R		4	1.60E-08	µCi/mL	GP	RADA-013
0	Americium-241	3.28E-10±2.88E-10	U			3.69E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.02E-09±1.87E-09	J	I		7.58E-10	µCi/mL	GP	RADA-011
0	Antimony-125	4.36E-09±4.53E-09	U			8.62E-09	µCi/mL	GP	RADA-013
0	Barium-133	-1.16E-09±2.42E-09	U			3.67E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.11E-08±8.40E-09				5.65E-09	µCi/mL	GP	RADA-013
0	Carbon-14	7.52E-08±1.70E-08				2.53E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.70E-10±1.81E-09	U			2.74E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.44E-09±1.76E-09	U			2.84E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	6.42E-11±2.36E-09	U			3.72E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.87E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	2.37E-10±2.32E-10	J	I		1.78E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	5.23E-11±1.39E-10	U			3.64E-10	µCi/mL	GP	RADA-011
0	Europium-152	1.48E-09±5.16E-09	U			9.37E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.59E-09±4.68E-09	U			8.24E-09	µCi/mL	GP	RADA-013
0	Europium-155	5.15E-09±7.09E-09	U			1.27E-08	µCi/mL	GP	RADA-013
2	Gross alpha	4.00E-07±1.02E-07				8.37E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.25E-07±7.79E-09				5.66E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.43E-09±4.60E-09	U			5.34E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.18E-08±1.01E-08				5.92E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	4.40E-10±2.80E-10	J	I		3.30E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.52E-06±6.45E-08				1.58E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.64E-11±2.27E-11	U			1.85E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	6.86E-11±9.88E-11	U			1.85E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.16E-08±2.28E-08	U			4.64E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-4.49E-10±2.28E-09	U			4.00E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	6.68E-08±2.87E-09				3.62E-10	µCi/mL	GP	RADA-010
2	Radium-226	4.27E-08±3.09E-09				5.37E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.67E-08±1.79E-09	J	L	I	1.55E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.56E-07±6.94E-09			5	8.96E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.85E-07±1.91E-08				1.93E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.04E-09±1.96E-09	U			3.58E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.69E-10±1.27E-10	J	I		9.36E-11	µCi/mL	GP	RADA-012
0	Thorium-230	4.19E-11±5.50E-11	U			9.19E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.59E-11±3.11E-11	U			4.76E-11	µCi/mL	GP	RADA-012
2	Tritium	8.61E-03±1.37E-05			5	4.11E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.07E-07±7.88E-09				1.36E-09	µCi/mL	GP	RADA-011
1	Uranium-235	7.66E-09±2.18E-09				1.69E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.28E-07±8.60E-09				1.36E-09	µCi/mL	GP	RADA-011

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 71.7 ft (21.85 m) below TOC  
 Water elevation: 201.8 ft (61.51 m) msl  
 pH: 4.1  
 Sp. conductance: 2,089 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:12  
 Water temperature: 24°C  
 Air temperature: 37.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	21,500	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	546	J	K	I	5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	23.6				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	13.9				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	183,000			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.62				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	198				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	10.1				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A

ESH-EMS-20010585

Well FSB 78C collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Iron, total recoverable	91.2			5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	4.16	J	I		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	30,900			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	4,940			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nickel, total recoverable	117				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	248,000				2,500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	103				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	3,330	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	5.06				5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	119,000	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	9.12	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	524				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.10E-08±1.72E-08	U			2.02E-08	µCi/mL	GP	RADA-013
0	Americium-241	3.17E-10±2.78E-10	J	I		1.90E-10	µCi/mL	GP	RADA-011
0	Americium-243	6.74E-11±1.28E-09	U			1.44E-10	µCi/mL	GP	RADA-011
0	Antimony-125	3.23E-09±6.79E-09	U			1.22E-08	µCi/mL	GP	RADA-013
0	Barium-133	-4.45E-09±3.44E-09	U			5.56E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	2.74E-08±1.10E-08	R		4	1.37E-08	µCi/mL	GP	RADA-013
0	Carbon-14	9.28E-08±1.73E-08				2.47E-08	µCi/mL	GP	RADA-003
0	Cesium-134	4.33E-10±2.84E-09	U			4.32E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.28E-09±2.52E-09	U			4.63E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.74E-09±3.29E-09	U			5.84E-09	µCi/mL	GP	RADA-013
0	Curium-242	6.85E-11±1.15E-10	U			2.06E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	2.22E-10±2.52E-10	U			4.00E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	<0.00E+00	U			2.21E-10	µCi/mL	GP	RADA-011
0	Europium-152	-9.00E-09±7.09E-09	U			1.16E-08	µCi/mL	GP	RADA-013
0	Europium-154	3.60E-10±7.70E-09	U			1.38E-08	µCi/mL	GP	RADA-013
0	Europium-155	-7.95E-10±8.60E-09	U			1.47E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.46E-07±1.35E-08			5	4.79E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	1.36E-07±5.18E-09				3.00E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.73E-08±5.66E-09	R		4	9.84E-09	µCi/mL	GP	RADA-013
0	Lead-214	2.49E-08±1.07E-08	J	I		8.72E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.82E-10±3.06E-10	JU	L	C	5.31E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.03E-06±5.15E-09				4.20E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.42E-11±7.51E-11	U			8.13E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.92E-11±6.76E-11	U			1.22E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.67E-09±5.15E-08	U			4.76E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.04E-10±3.33E-09	U			5.83E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	4.86E-08±3.31E-09				6.61E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.95E-08±3.29E-09				5.06E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.22E-08±1.22E-09	J	K	C	1.25E-09	µCi/mL	GP	RADA-009
2	Strontium-90	4.63E-07±9.36E-09				1.35E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.91E-07±2.09E-08				2.29E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.19E-09±5.65E-09	U			6.01E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.84E-10±1.22E-10	U			2.06E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.61E-10±1.10E-10	J	I		8.71E-11	µCi/mL	GP	RADA-012
0	Thorium-232	7.37E-11±5.99E-11	J	I		7.16E-11	µCi/mL	GP	RADA-012
2	Tritium	7.67E-03±1.44E-09			5	5.99E-06	µCi/mL	GP	RADA-002
2	Tritium	8.15E-03±1.50E-09			5	6.08E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	9.13E-08±4.52E-09				3.07E-10	µCi/mL	GP	RADA-011
1	Uranium-235	9.68E-09±1.48E-09				4.40E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.02E-07±4.77E-09				4.39E-10	µCi/mL	GP	RADA-011

## WELL FSB 78C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: 71.26 ft (21.72 m) below TOC  
 Water elevation: 202.24 ft (61.64 m) msl  
 pH: 4  
 Sp. conductance: 2,073 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 12:48  
 Water temperature: 22.6°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	16,300				50.0	µg/L	GE	EPA6010B
2	Antimony, total recoverable	10.0				10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	419				5.00	µg/L	GE	EPA6010B

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Well FSB 78C collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Beryllium, total recoverable	16.8				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	10.7				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	117,000				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	141				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Cyanide	<6.25	JU	QV		5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	35.4	J	I		50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	18,700				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	3,320				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0983	J	I		0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	84.7				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	261,000				2,500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	2,500				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<3.23	JU		4	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<3.21	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	83,700				100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<8.30	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	90.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	374				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.41E-08±2.06E-08	U			3.56E-08	µCi/mL	GP	RADA-013
0	Americium-241	4.77E-10±2.90E-10	J	I		2.37E-10	µCi/mL	GP	RADA-011
0	Antimony-125	1.45E-08±1.72E-08	U			1.69E-08	µCi/mL	GP	RADA-013
0	Barium-133	2.40E-10±6.22E-09	U			9.37E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	3.23E-08±1.51E-08	R		4	2.30E-08	µCi/mL	GP	RADA-013
0	Carbon-14	2.52E-08±2.81E-08	U			4.71E-08	µCi/mL	GP	RADA-003
0	Cesium-134	4.24E-09±4.01E-09	U			7.25E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-2.01E-09±3.78E-09	U			6.44E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.35E-09±4.25E-09	U			7.72E-09	µCi/mL	GP	RADA-013
0	Curium-242	-2.37E-11±2.90E-11	U			2.97E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	4.00E-10±2.61E-10	J	I		1.33E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	<0.00E+00	U			1.55E-10	µCi/mL	GP	RADA-011
0	Europium-152	3.94E-10±1.15E-08	U			1.96E-08	µCi/mL	GP	RADA-013
0	Europium-154	5.74E-09±1.05E-08	U			2.21E-08	µCi/mL	GP	RADA-013
0	Europium-155	-7.87E-10±1.28E-08	U			2.24E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.45E-07±2.81E-08				1.91E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.42E-07±1.82E-08				4.49E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.81E-09±1.11E-08	U	V		1.26E-08	µCi/mL	GP	RADA-013
0	Lead-214	2.13E-08±1.80E-08	J	I		1.42E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	3.41E-10±3.34E-10	JU	L	C	5.75E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.22E-06±4.94E-08				4.30E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.11E-11±5.58E-11	U			1.46E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			5.99E-11	µCi/mL	GP	RADA-011
0	Potassium-40	1.18E-07±9.18E-08	J	I		7.71E-08	µCi/mL	GP	RADA-013
0	Promethium-146	9.42E-10±4.97E-09	U			9.18E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	5.35E-08±2.62E-09				3.53E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	4.79E-08±2.69E-09				3.12E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.23E-08±3.19E-09	J	L	C	6.05E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.74E-09±8.70E-10				8.39E-10	µCi/mL	GP	RADA-009
2	Strontium-90	5.44E-07±9.95E-09				1.17E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.22E-07±2.02E-08				1.89E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.34E-09±4.25E-09	U			8.34E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.33E-10±1.16E-10	U			2.12E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.49E-10±9.01E-11	J	I		1.10E-10	µCi/mL	GP	RADA-012
0	Thorium-232	3.43E-11±4.78E-11	U			8.81E-11	µCi/mL	GP	RADA-012
2	Tritium	8.08E-03±1.47E-09			5	5.92E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	8.87E-08±4.84E-09				6.76E-10	µCi/mL	GP	RADA-011
1	Uranium-235	8.58E-09±1.51E-09				4.29E-10	µCi/mL	GP	RADA-011
2	Uranium-238	9.77E-08±5.08E-09				5.56E-10	µCi/mL	GP	RADA-011

## WELL FSB 79

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 26.9 ft (8.2 m) below TOC  
 Water elevation: 190.9 ft (58.19 m) msl  
 pH: 4.2  
 Sp. conductance: 656 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 12:50  
 Water temperature: 29.3°C  
 Air temperature: 29.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	18,000				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.65				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	6.08				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	69,500				2,500	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	70,500				2,500	µg/L	GE	EPA353.1
1	pH	3.66	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,830				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	5.18E-07±2.23E-08	J		I	3.46E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.19E-07±2.12E-08				5.19E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.58E-03±4.95E-05				4.17E-06	µCi/mL	GP	RADA-002

## WELL FSB 79A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 61.34 ft (18.7 m) below TOC  
 Water elevation: 156.76 ft (47.78 m) msl  
 pH: 6.8  
 Sp. conductance: 102 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 190 gal

Time: 11:24  
 Water temperature: 21°C  
 Air temperature: 22.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 27 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	2,360				50.0	µg/L	GE	EPA353.1
0	pH	6.95	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	85.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	5.66E-10±1.20E-09	U			2.79E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.28E-09±2.65E-09	JU	L	I	6.05E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.91E-05±1.27E-06				6.85E-07	µCi/mL	GP	RADA-002

## WELL FSB 79B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 61.19 ft (18.65 m) below TOC  
 Water elevation: 157.01 ft (47.86 m) msl  
 pH: 6.9  
 Sp. conductance: 173 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 116 gal

Time: 11:06  
 Water temperature: 19.7°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 65 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.0530	JU		4	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,390				150	µg/L	GE	EPA353.1
0	pH	7.45	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	76.5				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.85E-10±1.44E-09	U			3.65E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.65E-10±3.46E-09	JU	L	I	8.19E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.96E-05±1.42E-06				6.94E-07	µCi/mL	GP	RADA-002



**WELL FSB 79C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 24.67 ft (7.52 m) below TOC  
 Water elevation: 193.73 ft (59.05 m) msl  
 pH: 3.9  
 Sp. conductance: 1,250 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 61 gal

Time: 11:46  
 Water temperature: 21.2°C  
 Air temperature: 25.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	42,400				50.0	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.87				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	17.3				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	6.52				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	162,000				5,000	µg/L	GE	EPA353.1
1	pH	3.72	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	890				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	3.62E-07±2.19E-08	J		I	4.65E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.68E-06±2.93E-08				5.49E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.42E-03±1.05E-09				6.31E-06	µCi/mL	GP	RADA-002

**WELL FSB 87A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 135.06 ft (41.17 m) below TOC  
 Water elevation: 152.74 ft (46.56 m) msl  
 pH: 6.6  
 Sp. conductance: 95 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 173 gal

Time: 13:03  
 Water temperature: 21.8°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 44 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	100				50.0	µg/L	GE	EPA353.1
0	pH	6.94	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	125				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	8.69E-10±2.28E-09	U			5.40E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-3.28E-09±3.13E-09	JU	L	I	8.33E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.25E-06±4.90E-07				6.90E-07	µCi/mL	GP	RADA-002

**WELL FSB 87B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 138.1 ft (42.09 m) below TOC  
 Water elevation: 149.4 ft (45.54 m) msl  
 pH: 5.9  
 Sp. conductance: 113 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 86 gal

Time: 13:32  
 Water temperature: 22.3°C  
 Air temperature: 26.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.0610	JU		4	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	10,600				250	µg/L	GE	EPA353.1
0	pH	6.08	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	71.2				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.27E-09±1.59E-09	U			3.03E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.80E-09±3.22E-09	JU	L	I	6.46E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.85E-04±2.65E-06				6.88E-07	µCi/mL	GP	RADA-002

**WELL FSB 87C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 80.87 ft (24.65 m) below TOC  
 Water elevation: 206.63 ft (62.98 m) msl  
 pH: 5.7  
 Sp. conductance: 155 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 100 gal

Time: 12:46  
 Water temperature: 20.4°C  
 Air temperature: 27.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 9 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0790	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	9.06				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	16,600				500	µg/L	GE	EPA353.1
0	pH	5.86	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	81.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.81E-09±2.10E-09	U			3.93E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.48E-08±4.39E-09	J	IL	I	7.18E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.51E-04±4.55E-06				6.89E-07	µCi/mL	GP	RADA-002

**WELL FSB 87D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 76.59 ft (23.34 m) below TOC  
 Water elevation: 210.71 ft (64.23 m) msl  
 pH: 4.2  
 Sp. conductance: 702 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 40 gal

Time: 10:51  
 Water temperature: 22.6°C  
 Air temperature: 30.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1,520				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.162	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.62				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	5.15				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	59,000				2,500	µg/L	GE	EPA353.1
0	pH	4.29	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	532				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	9.73E-08±1.19E-08				5.21E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.49E-08±8.90E-09				7.95E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.03E-03±3.94E-05				4.40E-06	µCi/mL	GP	RADA-002

**WELL FSB 88C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 71.61 ft (21.83 m) below TOC  
 Water elevation: 211.39 ft (64.43 m) msl  
 pH: 5.4  
 Sp. conductance: 683 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 82 gal

Time: 14:24  
 Water temperature: 21.3°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	79.6				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.44				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.393	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	62,500				1,250	µg/L	GE	EPA353.1
0	pH	6.22	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	131				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	5.27E-09±3.33E-09	J	I		4.39E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.57E-09±3.55E-09	J	IL	I	6.14E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.11E-03±8.90E-06				6.89E-07	µCi/mL	GP	RADA-002



**WELL FSB 88D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 66.8 ft (20.36 m) below TOC  
 Water elevation: 215.6 ft (65.72 m) msl  
 pH: 4.4  
 Sp. conductance: 572 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 19 gal

Time: 14:08  
 Water temperature: 25.9°C  
 Air temperature: 27.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	4.370				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.441				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.219	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	60.000				2.500	µg/L	GE	EPA353.1
0	pH	5.63	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	428				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.69E-07±1.36E-08	J		I	2.43E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.93E-07±9.74E-09				3.99E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.80E-03±3.53E-05			5	3.19E-06	µCi/mL	GP	RADA-002

**WELL FSB 89C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 70.49 ft (21.49 m) below TOC  
 Water elevation: 210.81 ft (64.26 m) msl  
 pH: 5.9  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 14:58  
 Water temperature: 21°C  
 Air temperature: 30.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
1	Aluminum, total recoverable	42.9	J	I		146	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	<0.0350	JU		4	0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	0.340	J	I		1.60	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<0.0850	U	V		1.00	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1.570				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1.630				40.0	µg/L	WA	EPA353.2
0	pH	5.92	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.09	J	Q		0.100	pH	WA	EPA9040B
0	Specific conductance	44.5				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	54.9				8.90	µS/cm	WA	EPA9050A
0	Gross alpha	1.66E-10±1.42E-09	U			3.86E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	1.69E-09±2.98E-09	U			1.59E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.16E-09±2.98E-09	JU	L	I	7.46E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-9.76E-10±2.47E-09	U			1.41E-08	µCi/mL	ML	RADA-001
1	Tritium	1.34E-05±8.28E-07				7.29E-07	µCi/mL	GP	RADA-002
1	Tritium	1.88E-05±9.57E-07	J	L	I	5.72E-07	µCi/mL	ML	RADA-002

**WELL FSB 89C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 70.49 ft (21.49 m) below TOC  
 Water elevation: 210.81 ft (64.26 m) msl  
 pH: 5.9  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 14:58  
 Water temperature: 21°C  
 Air temperature: 30.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0700	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.241	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1.700				50.0	µg/L	GE	EPA353.1
0	pH	5.82	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	41.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.18E-09±1.95E-09	U			3.35E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.11E-09±2.84E-09	JU	L	I	6.55E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.39E-05±8.19E-07				6.87E-07	µCi/mL	GP	RADA-002

**WELL FSB 89D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 66.45 ft (20.25 m) below TOC  
 Water elevation: 214.75 ft (65.46 m) msl  
 pH: 4.1  
 Sp. conductance: 164 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 10:31  
 Water temperature: 20.6°C  
 Air temperature: 14.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3.630				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.216				0.200	µg/L	GE	EPA6020
1	Cadmium, total recoverable	3.93				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	14.400				250	µg/L	GE	EPA353.1
0	pH	4.10	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	121				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.20E-07±1.18E-08				3.33E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.24E-07±1.72E-08				6.20E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.27E-04±3.37E-06				6.16E-07	µCi/mL	GP	RADA-002

**WELL FSB 90C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 69.29 ft (21.12 m) below TOC  
 Water elevation: 209.11 ft (63.74 m) msl  
 pH: 5.7  
 Sp. conductance: 151 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 76 gal

Time: 16:01  
 Water temperature: 21°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	123				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.571				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.236	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	13,500				250	µg/L	GE	EPA353.1
0	pH	5.93	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	128				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.02E-09±2.44E-09	U			5.72E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.86E-10±2.87E-09	JU	L	I	7.00E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.86E-04±3.86E-06				7.31E-07	µCi/mL	GP	RADA-002



**WELL FSB 90D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 63.55 ft (19.37 m) below TOC  
 Water elevation: 215.05 ft (65.55 m) msl  
 pH: 3.9  
 Sp. conductance: 611 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 12:19  
 Water temperature: 27.3°C  
 Air temperature: 33.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	22,200				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.23				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	5.67				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	19.4				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	60,300				1,250	µg/L	GE	EPA353.1
1	pH	3.65	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	751				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	3.69E-07±1.87E-08	J		I	2.47E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.08E-06±2.30E-08				5.49E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.32E-03±4.50E-05			5	3.66E-06	µCi/mL	GP	RADA-002

**WELL FSB 91C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 69.7 ft (21.24 m) below TOC  
 Water elevation: 209.6 ft (63.89 m) msl  
 pH: 5.1  
 Sp. conductance: 128 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 9:35  
 Water temperature: 19°C  
 Air temperature: 13.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1,070				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.88				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	2.17				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	12,200				500	µg/L	GE	EPA353.1
0	pH	5.57	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	87.8				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.76E-08±6.00E-09				4.74E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.02E-07±1.24E-08				7.04E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.77E-04±2.48E-06				6.08E-07	µCi/mL	GP	RADA-002

**WELL FSB 91D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 67.1 ft (20.45 m) below TOC  
 Water elevation: 212.1 ft (64.65 m) msl  
 pH: 3.9  
 Sp. conductance: 1,094 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 10:15  
 Water temperature: 19.5°C  
 Air temperature: 18.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	36,500				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.78				0.200	µg/L	GE	EPA6020
1	Cadmium, total recoverable	4.44				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	6.47				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	126,000				2,500	µg/L	GE	EPA353.1
1	pH	3.62	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	860				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	3.75E-07±2.15E-08	J		I	3.48E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.80E-07±2.13E-08				4.83E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.11E-03±1.19E-09			5	6.61E-06	µCi/mL	GP	RADA-002

**WELL FSB 92C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 68.4 ft (20.85 m) below TOC  
 Water elevation: 207.3 ft (63.19 m) msl  
 pH: 11.5  
 Sp. conductance: 1,372 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 84 gal

Time: 11:35  
 Water temperature: 18.9°C  
 Air temperature: 15.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 251 mg/L  
 Phenolphthalein alkalinity: 212 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	10,700				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.354				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	0.503	J	I		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	21,200				500	µg/L	GE	EPA353.1
2	pH	11.7	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	897				1.00	µS/cm	GE	EPA9050A
1	Gross alpha	1.12E-08±4.63E-09	J	I		3.56E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.27E-07±1.00E-08				6.37E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.90E-04±3.70E-06				6.23E-07	µCi/mL	GP	RADA-002

**WELL FSB 92D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 70.9 ft (21.61 m) below TOC  
 Water elevation: 205 ft (62.48 m) msl  
 pH: 5.2  
 Sp. conductance: 436 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 12:34  
 Water temperature: 21.8°C  
 Air temperature: 20.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	2,550				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.378				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.36				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	42,800				1,250	µg/L	GE	EPA353.1
1	pH	3.97	J	Q		0.100	pH	GE	EPA9040B
1	pH	3.97	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	304				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	6.87E-08±9.53E-09				4.24E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.35E-07±1.02E-08				7.00E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.53E-03±7.26E-06				6.13E-07	µCi/mL	GP	RADA-002

**WELL FSB 93C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 70.67 ft (21.54 m) below TOC  
 Water elevation: 205.53 ft (62.65 m) msl  
 pH: 5.1  
 Sp. conductance: 137 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 13:05  
 Water temperature: 19.8°C  
 Air temperature: 14.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0		U		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.769		J	K	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	0.669		I		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00		U		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	14,000				500	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	13,700				500	µg/L	GE	EPA353.1
0	pH	5.07	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.07	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	103				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	103				1.00	µS/cm	GE	EPA9050A



Well FSB 93C collected on 04/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Gross alpha	1.79E-09±1.91E-09	U			3.36E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.50E-09±2.34E-09	J	I		3.33E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	2.83E-08±5.04E-09				5.84E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.16E-08±5.29E-09				6.20E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.11E-04±3.91E-06				6.96E-07	µCi/mL	GP	RADA-002

**WELL FSB 93D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 68.55 ft (20.89 m) below TOC  
 Water elevation: 207.55 ft (63.26 m) msl  
 pH: 4.4  
 Sp. conductance: 338 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 5 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	8,800				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.44				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	10.8				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	36,500				1,250	µg/L	GE	EPA353.1
1	pH	3.99	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	272				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	9.45E-08±1.08E-08				3.74E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.46E-07±2.29E-08				6.60E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.57E-04±5.39E-06				6.05E-07	µCi/mL	GP	RADA-002

**WELL FSB 94C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 77.6 ft (23.65 m) below TOC  
 Water elevation: 203.5 ft (62.03 m) msl  
 pH: 4.7  
 Sp. conductance: 2,165 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 89 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	33,700				50.0	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	11.4				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	17.1				1.00	µg/L	GE	EPA6020
1	Lead, total recoverable	43.8				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	308,000				10,000	µg/L	GE	EPA353.1
0	pH	4.59	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,700				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.39E-07±2.10E-08				4.89E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.85E-06±5.19E-08				1.27E-08	µCi/mL	GP	EPA900.0
2	Tritium	1.17E-02±2.21E-09				1.00E-05	µCi/mL	GP	RADA-002

**WELL FSB 94C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 77.69 ft (23.68 m) below TOC  
 Water elevation: 203.41 ft (62 m) msl  
 pH: 4.1  
 Sp. conductance: 2,377 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 9:46  
 Water temperature: 20°C  
 Air temperature: 31.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	87,500				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	87,600				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	725				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Beryllium, dissolved	20.6				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	22.7				5.00	µg/L	GE	EPA6010B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	28.2				5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	74,600				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	72,700	J	K	I	100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	2,320				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	2.31	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, dissolved	655				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	627				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	90.8				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	89.7				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	1.67	J	IL	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	20,900				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	20,400				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.324				0.200	µg/L	GE	EPA7470A
2	Nickel, dissolved	190				5.00	µg/L	GE	EPA6010B
2	Nickel, total recoverable	185				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	348,000				10,000	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<25.0	U			25.0	µg/L	GE	EPA6010B
0	Sodium, dissolved	160,000				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	161,000				100	µg/L	GE	EPA6010B
0	Sulfate	2,390				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Thallium, dissolved	4.15	J	I		10.0	µg/L	GE	EPA6010B
2	Thallium, total recoverable	8.21	J	I		10.0	µg/L	GE	EPA6010B
0	Toluene	0.383	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	200				50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	396				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	380				5.00	µg/L	GE	EPA6010B



Well FSB 94C collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	2.85E-08±1.32E-08	J	I		9.09E-09	µCi/mL	GP	RADA-013
0	Americium-241	3.41E-10±4.36E-10	U			6.51E-10	µCi/mL	GP	RADA-011
0	Antimony-125	9.56E-10±4.08E-09	U			7.32E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	8.98E-09±1.24E-08	U			2.26E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	6.12E-08±7.35E-09	U			5.25E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.87E-07±1.93E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.92E-09±1.58E-09	U			2.44E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.77E-09±1.76E-09	J	I		2.43E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.90E-09±3.98E-09	R		4	3.06E-09	µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U			4.31E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	2.48E-10±3.53E-10	U			3.71E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	0.00E+00±2.00E-09	U			4.30E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.01E-09±4.74E-09	U			7.78E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.24E-09±3.94E-09	U			6.97E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.65E-09±6.29E-09	U			1.09E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.91E-07±9.65E-09	U			2.35E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	1.38E-07±1.77E-08	R		4	3.59E-09	µCi/mL	GP	RADA-006
0	Lead-212	6.07E-09±3.00E-09	J	K	I	5.40E-09	µCi/mL	GP	RADA-013
0	Nonvolatile beta	2.34E-06±1.67E-08	J			3.18E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-3.15E-11±3.67E-11	U			3.04E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.37E-11±8.77E-11	U			1.31E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.90E-08±3.54E-08	U			2.36E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-7.55E-10±1.88E-09	U			3.25E-09	µCi/mL	GP	RADA-013
2	Radium-226	5.82E-08±2.89E-09	U		5	3.46E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.86E-08±1.68E-09	U			1.15E-09	µCi/mL	GP	RADA-009
2	Strontium-90	8.73E-07±8.66E-09	U			7.93E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.68E-07±2.27E-08	U			1.98E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.40E-09±1.61E-09	U			3.07E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.00E-09±2.90E-10	J	I		1.68E-10	µCi/mL	GP	RADA-012
0	Thorium-230	7.86E-11±6.54E-11	U			3.93E-11	µCi/mL	GP	RADA-012
0	Thorium-232	0.00E+00±2.01E-09	U			3.93E-11	µCi/mL	GP	RADA-012
2	Uranium-233/234	1.45E-07±2.66E-08	U			1.55E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.06E-08±3.18E-09	U			1.10E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.37E-07±2.53E-08	U			4.72E-10	µCi/mL	GP	RADA-011

## WELL FSB 94C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 77.93 ft (23.75 m) below TOC  
 Water elevation: 203.17 ft (61.93 m) msl  
 pH: 4.3  
 Sp. conductance: 2,336 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 15:39  
 Water temperature: 23.2°C  
 Air temperature: 26.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bis(2-ethylhexyl) phthalate	<0.223	U	V		0.990	µg/L	GE	EPA8270C
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
2	Tritium	1.24E-02±1.98E-05	U			7.80E-07	µCi/mL	GP	RADA-002

## WELL FSB 94C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 77.89 ft (23.74 m) below TOC  
 Water elevation: 203.21 ft (61.94 m) msl  
 pH: 4  
 Sp. conductance: 231 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 5 gal  
 LABORATORY ANALYSES

Time: 12:17  
 Water temperature: 26.7°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	81,700				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	801				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	19.6				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	27.0				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	101,000				100	µg/L	GE	EPA6010B

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Well FSB 94C collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Chromium, total recoverable	65.8				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	586				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	81.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	454				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	19,900				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	12,800				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.249				0.200	µg/L	GE	EPA7470A
2	Nickel, total recoverable	207				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	293,000				5,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	158				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	4,950				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<3.14	JU		4	5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	171,000				100	µg/L	GE	EPA6010B
0	Sulfate	1,960				200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	8.07	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	110				50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	110				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	352				5.00	µg/L	GE	EPA6010B
0	Actinium-228	2.79E-08±1.30E-08	R		4	2.09E-08	µCi/mL	GP	RADA-013
0	Actinium-228	2.56E-08±1.93E-08	J	I		2.16E-08	µCi/mL	GP	RADA-013
0	Americium-241	3.78E-10±5.79E-10	U			1.15E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.00E-09±3.09E-09	U			1.11E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-4.01E-11±5.42E-09	U			9.25E-09	µCi/mL	GP	RADA-013
0	Antimony-125	1.61E-09±5.99E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.08E-09±3.04E-09	U			4.40E-09	µCi/mL	GP	RADA-013
0	Barium-133	6.29E-10±3.11E-09	U			4.62E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.22E-08±9.57E-09	U			6.35E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.67E-08±9.32E-09	U			8.24E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.49E-07±1.92E-08	U			2.54E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-9.20E-10±2.11E-09	U			3.14E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-9.67E-09±2.63E-09	U			3.69E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.96E-09±3.47E-09	U			3.90E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.66E-09±3.35E-09	U			3.90E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.52E-09±2.26E-09	U			4.33E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.31E-09±3.00E-09	U			5.13E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.39E-10±5.46E-10	U			1.08E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	2.92E-10±4.65E-10	U			8.75E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.46E-10±3.88E-10	U			1.02E-09	µCi/mL	GP	RADA-011
0	Europium-152	-5.99E-09±6.34E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-152	-5.10E-09±7.27E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.75E-09±5.21E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.46E-09±6.60E-09	U			1.07E-08	µCi/mL	GP	RADA-013
0	Europium-155	-6.96E-09±9.06E-09	U			1.53E-08	µCi/mL	GP	RADA-013
0	Europium-155	4.20E-09±7.11E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.82E-07±1.00E-07	U			8.88E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.50E-07±1.95E-08	R		4	5.93E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.01E-09±6.35E-09	U			6.37E-09	µCi/mL	GP	RADA-013
0	Lead-212	1.15E-08±3.89E-09	R			7.20E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.87E-08±1.04E-08	U			7.42E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.41E-08±1.01E-08	U			7.38E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	5.51E-10±3.19E-10	J	I		3.48E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.43E-06±6.47E-08	U			1.41E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.02E-11±5.91E-11	U			9.05E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-8.72E-12±1.71E-11	U			1.66E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.46E-08±2.68E-08	U			4.59E-08	µCi/mL	GP	RADA-013
0	Potassium-40	2.42E-08±4.66E-08	U			3.37E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-6.76E-10±2.65E-09	U			4.42E-09	µCi/mL	GP	RADA-013
0	Promethium-146	1.22E-09±2.64E-09	U			4.78E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.34E-08±3.43E-09	U			2.99E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.76E-08±3.46E-09	U			4.28E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.58E-08±2.02E-09	J	L	1	1.60E-09	µCi/mL	GP	RADA-009
2	Strontium-90	8.69E-07±8.22E-09	U		5	8.07E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.91E-07±1.98E-08	U			2.01E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.72E-10±3.14E-09	U			4.24E-09	µCi/mL	GP	RADA-013
0	Thallium-208	3.53E-09±2.39E-09	U			4.55E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.68E-10±1.85E-10	U			1.25E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.23E-11±4.04E-11	U			1.04E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.33E-11±2.61E-11	U			4.00E-11	µCi/mL	GP	RADA-012
2	Tritium	1.19E-02±1.60E-05	U		5	4.04E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.29E-07±9.27E-09	U			1.40E-09	µCi/mL	GP	RADA-011
1	Uranium-235	8.31E-09±2.39E-09	U			1.41E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.22E-07±9.01E-09	U			1.08E-09	µCi/mL	GP	RADA-011

B-1



## WELL FSB 94C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 77.97 ft (23.77 m) below TOC  
 Water elevation: 203.13 ft (61.91 m) msl  
 pH: 4.1  
 Sp. conductance: 237 µS/cm  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 9:55  
 Water temperature: 23.4°C  
 Air temperature: 30.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	83,700	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	729	J	K	I	5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	21.0				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	28.6				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	88,400			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	44.9				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	597				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	79.6				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q		5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	391			5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	22,000			5	20.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	13,200			5	20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.278	J	Q		0.200	µg/L	GE	EPA7470A
2	Nickel, total recoverable	198				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	297,000				2,500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	144				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	4,820	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	162,000	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	1,590				200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	7.38	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	80.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	379				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.13E-08±2.40E-08	U			3.47E-08	µCi/mL	GP	RADA-013
0	Americium-241	2.25E-10±1.89E-10	J		I	2.09E-10	µCi/mL	GP	RADA-011
0	Americium-243	3.48E-10±1.02E-09	U			1.79E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-2.66E-09±9.52E-09	U			1.60E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.26E-09±5.94E-09	U			8.72E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.39E-08±1.69E-08	R		4	2.52E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.41E-07±1.83E-08				2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.97E-09±4.60E-09	U			6.51E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.23E-09±5.52E-09	U			7.51E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.95E-09±4.54E-09	U			9.24E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.23E-11±7.08E-11	U			1.27E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	3.13E-10±2.16E-10	J		I	1.17E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	4.54E-11±8.90E-11	U			1.36E-10	µCi/mL	GP	RADA-011
0	Europium-152	-8.08E-09±1.06E-08	U			1.72E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.40E-08±1.32E-08	U			1.55E-08	µCi/mL	GP	RADA-013
0	Europium-155	9.72E-10±1.26E-08	U			2.21E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.79E-07±3.44E-08				2.67E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.56E-07±1.90E-08				3.34E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.56E-09±8.90E-09	U		V	1.10E-08	µCi/mL	GP	RADA-013
0	Lead-214	4.96E-08±1.47E-08				1.46E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.04E-09±4.50E-10	J	IL	C	2.64E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.48E-06±6.77E-08				4.79E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	5.98E-12±5.15E-11	U			1.48E-10	µCi/mL	GP	RADA-011
0	Plutonium-239	-1.25E-12±2.13E-10	U			6.01E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.27E-11±5.92E-11	U			6.40E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.30E-10±3.89E-10	U			1.01E-09	µCi/mL	GP	RADA-011
0	Potassium-40	7.86E-08±4.30E-08	U			9.61E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.19E-09±4.93E-09	U			8.14E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.51E-08±4.46E-09				4.07E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.43E-08±3.45E-09				4.47E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.76E-08±1.74E-09	J	K	C	1.25E-09	µCi/mL	GP	RADA-009
2	Strontium-90	9.46E-07±1.20E-08				1.01E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.58E-07±2.01E-08				2.28E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.27E-09±4.69E-09	U			7.88E-09	µCi/mL	GP	RADA-013
0	Thorium-228	7.90E-10±1.81E-10				1.85E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.06E-10±1.07E-10				7.12E-11	µCi/mL	GP	RADA-012
0	Thorium-232	8.81E-11±5.83E-11	J	I		5.85E-11	µCi/mL	GP	RADA-012

Well FSB 94C collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.16E-02±2.23E-09			5	8.05E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.35E-07±6.17E-09				4.57E-10	µCi/mL	GP	RADA-011
1	Uranium-235	9.75E-09±1.68E-09				7.78E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.35E-07±6.17E-09				5.55E-10	µCi/mL	GP	RADA-011

## WELL FSB 94C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 2,508 µS/cm  
 Turbidity: 4 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:02  
 Water temperature: 24°C  
 Air temperature: 33.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): RCV

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	84,900				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	780				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	21.3				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	27.9				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	88,800				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	17.1				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	600				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	198				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	285				50.0	µg/L	GE	EPA6010B
2	Lead, total recoverable	132				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	21,800				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	13,700				50.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.256				0.200	µg/L	GE	EPA7470A
2	Nickel, total recoverable	184				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	299,000				5,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	111				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	4,840				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<25.0	U			25.0	µg/L	GE	EPA6010B
0	Sodium, total recoverable	169,000				100	µg/L	GE	EPA6010B
0	Sulfate	1,040				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<4.84	JU		4	10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<60.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	427				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.40E-08±1.93E-08	U			3.49E-08	µCi/mL	GP	RADA-013
0	Americium-241	1.53E-10±4.07E-10	U			1.07E-09	µCi/mL	GP	RADA-011
0	Americium-243	2.28E-09±3.83E-09	U			3.81E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.65E-10±1.08E-08	U			1.90E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.19E-10±5.30E-09	U			8.23E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.60E-08±1.46E-08				1.25E-08	µCi/mL	GP	RADA-013
0	Carbon-14	3.90E-08±2.96E-08	U			4.90E-08	µCi/mL	GP	RADA-003
0	Cesium-134	7.87E-10±3.58E-09	U			5.70E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.89E-09±5.39E-09	U			6.89E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-7.89E-10±4.30E-09	U			7.75E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.08E-10±1.21E-10	U			1.39E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	4.05E-10±5.58E-10	U			6.07E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	<0.00E+00	U			7.03E-10	µCi/mL	GP	RADA-011
0	Europium-152	7.29E-09±1.11E-08	U			2.03E-08	µCi/mL	GP	RADA-013
0	Europium-154	3.21E-09±1.06E-08	U			2.07E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.38E-09±1.36E-08	U			2.31E-08	µCi/mL	GP	RADA-013
2	Gross alpha	3.36E-07±3.35E-08				2.32E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.55E-07±1.90E-08				3.50E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.06E-09±1.01E-08	U	V		1.08E-08	µCi/mL	GP	RADA-013
0	Lead-214	4.60E-08±1.62E-08				1.34E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	9.28E-10±3.57E-10	J	I		2.59E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.42E-06±6.85E-08				5.04E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.23E-11±2.41E-11	U			2.70E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			1.54E-10	µCi/mL	GP	RADA-011
0	Potassium-40	5.65E-09±6.46E-08	U			8.67E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.48E-09±4.80E-09	U			8.79E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.37E-08±3.43E-09				3.36E-10	µCi/mL	GP	RADA-010
2	Radium-226	1.14E-07±4.84E-09	J	L	C	3.94E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.61E-08±1.27E-09				9.26E-10	µCi/mL	GP	RADA-009



Well FSB 94C collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Strontium-90	9.42E-07±8.20E-09			5	7.24E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.43E-07±2.14E-08				1.96E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.86E-09±6.10E-09	U			6.85E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.03E-10±2.48E-10	J	I		3.21E-10	µCi/mL	GP	RADA-012
0	Thorium-230	8.77E-11±1.14E-10	U			2.25E-10	µCi/mL	GP	RADA-012
0	Thorium-232	4.02E-11±6.42E-11	U			1.21E-10	µCi/mL	GP	RADA-012
2	Tritium	1.18E-02±2.30E-09			5	8.41E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.41E-07±5.96E-09				8.21E-10	µCi/mL	GP	RADA-011
1	Uranium-235	8.97E-09±1.53E-09				7.40E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.40E-07±5.93E-09				6.38E-10	µCi/mL	GP	RADA-011

## WELL FSB 94DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 74.6 ft (22.74 m) below TOC  
 Water elevation: 205.9 ft (62.76 m) msl  
 pH: 4  
 Sp. conductance: 306 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 13:52  
 Water temperature: 28.1°C  
 Air temperature: 31.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	4.350				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.351				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.590	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	3.94	J	I		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	25.300				1.250	µg/L	GE	EPA353.1
1	pH	3.81	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1.340				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.05E-07±1.32E-08	J		I	2.33E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.73E-07±1.15E-08				4.55E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.20E-04±1.80E-05				2.33E-06	µCi/mL	GP	RADA-002

## WELL FSB 94DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 74.3 ft (22.65 m) below TOC  
 Water elevation: 206.2 ft (62.85 m) msl  
 pH: 3.7  
 Sp. conductance: 260 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 40 gal

Time: 14:01  
 Water temperature: 22.8°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	3.360				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	3.270				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	84.9				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<0.478	JU		4	5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	295				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	329				100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	2,140				100	µg/L	GE	EPA9056
0	Chloride	2,150				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well FSB 94DR collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, dissolved	3.48	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	3.67	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	11.8				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	10.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	L	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	225				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	219				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	<2.63	U	V		5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	<3.85	U	V		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	19,600				500	µg/L	GE	EPA353.1
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<1.03	U	V		5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	21,600				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	21,700				100	µg/L	GE	EPA6010B
0	Sulfate	7,680				200	µg/L	GE	EPA9056
0	Sulfate	7,590				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	<50.0	JU	L	C	50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	<30.0	JU	LV	C	50.0	µg/L	GE	EPA9056
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	2.04	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	1.14	J	I		5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	1.39	J	I		5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	<15.5	U	V		5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<16.2	U	V		5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.87E-08±1.16E-08	R		4	1.81E-08	µCi/mL	GP	RADA-013
1	Americium-241	3.66E-09±2.06E-09	J	I		2.94E-09	µCi/mL	GP	RADA-011
0	Antimony-125	-2.46E-09±5.89E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	-3.04E-10±1.43E-08	U			2.52E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.43E-09±3.98E-09	U			7.32E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.09E-10±1.37E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Carbon-14	6.95E-09±1.39E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.30E-09±2.04E-09	U			3.18E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.02E-08±8.18E-09	U			4.14E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-4.14E-10±1.81E-09	U			3.24E-09	µCi/mL	GP	RADA-013
0	Curium-242	4.64E-10±9.35E-10	U			2.07E-09	µCi/mL	GP	RADA-011
1	Curium-243/244	5.82E-09±2.51E-09	J	I		3.01E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.74E-10±6.58E-10	U			1.76E-09	µCi/mL	GP	RADA-011
0	Europium-152	-3.91E-09±5.90E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Europium-154	5.33E-09±5.79E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.92E-09±7.92E-09	U			1.39E-08	µCi/mL	GP	RADA-013
2	Gross alpha	1.97E-07±1.90E-08			5	4.03E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	6.30E-08±8.44E-09				2.18E-09	µCi/mL	GP	RADA-006
0	Lead-212	7.47E-10±5.42E-09	U			8.13E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	2.62E-07±1.63E-08				6.15E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	-1.11E-10±1.55E-10	U			6.44E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	8.52E-11±1.21E-10	U	V		1.28E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.99E-08±2.44E-08	U			4.99E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-1.64E-09±3.25E-09	U			4.77E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.12E-09±4.39E-10	J	I		4.02E-10	µCi/mL	GP	RADA-008
0	Radium-226	1.26E-09±4.85E-10	J	I		5.10E-10	µCi/mL	GP	RADA-008
2	Radium-228	6.64E-09±8.56E-09	J	K	I	1.09E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.72E-08±2.07E-09	J	K	I	7.76E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.79E-08±1.05E-08	J	I		1.97E-08	µCi/mL	GP	RADA-005
0	Technetium-99	3.05E-08±1.20E-08	J	I		2.26E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.29E-10±3.13E-09	U			4.60E-09	µCi/mL	GP	RADA-013
0	Thorium-228	-9.97E-11±1.01E-10	U			2.71E-10	µCi/mL	GP	RADA-012

B-137

Second Quarter 2001



Well FSB 94DR collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thorium-230	2.19E-10±1.14E-10	J	I		3.86E-11	µCi/mL	GP	RADA-012
0	Thorium-232	6.24E-12±4.28E-11	U			1.12E-10	µCi/mL	GP	RADA-012
2	Tritium	7.22E-04±1.42E-05				2.80E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	5.71E-08±9.77E-09				8.29E-10	µCi/mL	GP	RADA-011
1	Uranium-235	7.42E-09±1.81E-09				5.10E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.26E-07±2.06E-08				3.91E-10	µCi/mL	GP	RADA-011

**WELL FSB 94DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 74.28 ft (22.64 m) below TOC  
 Water elevation: 206.22 ft (62.86 m) msl  
 pH: 3.7  
 Sp. conductance: 263 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 10:38  
 Water temperature: 23.4°C  
 Air temperature: 30°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	4.040				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	90.0				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<0.355	JU		4	5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	421				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	5.65				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	4.27	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	44.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	228				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	223				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	281				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	8.11				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	17.700				250	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	188				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	22,900				100	µg/L	GE	EPA6010B
0	Sulfate	7,720				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	21.6				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.06E-09±1.71E-08	U			1.67E-08	µCi/mL	GP	RADA-013
1	Americium-241	4.64E-09±8.54E-10				3.63E-10	µCi/mL	GP	RADA-011
0	Americium-243	3.37E-10±1.46E-09	U			1.99E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.95E-09±5.99E-09	U			9.82E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.90E-09±2.90E-09	U			4.48E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	8.86E-09±8.95E-09	U			9.72E-09	µCi/mL	GP	RADA-013
0	Carbon-14	2.98E-08±1.57E-08	J	I		2.55E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.36E-10±2.26E-09	U			3.42E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.20E-08±6.07E-09				3.65E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.42E-11±1.90E-09	U			3.53E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.01E-11±1.80E-11	U			2.23E-10	µCi/mL	GP	RADA-011
1	Curium-243/244	5.75E-09±9.44E-10				3.04E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	5.60E-10±3.17E-10	J	I		1.40E-10	µCi/mL	GP	RADA-011
0	Europium-152	-9.39E-10±5.83E-09	U			9.71E-09	µCi/mL	GP	RADA-013
0	Europium-154	1.14E-09±6.37E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Europium-155	-1.16E-09±6.06E-09	U			1.03E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.29E-07±7.91E-08	J	I		9.57E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.15E-08±5.31E-09				3.74E-09	µCi/mL	GP	RADA-006
0	Lead-212	9.03E-09±3.56E-09	R		4	6.57E-09	µCi/mL	GP	RADA-013
0	Lead-214	9.30E-09±7.21E-09	R		4	8.75E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	7.19E-11±1.35E-10	U			2.94E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	1.73E-12±9.42E-11	U			3.28E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.10E-07±5.38E-08	J	I		1.34E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-8.98E-12±1.76E-11	U			1.71E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	4.41E-11±8.95E-11	U			2.03E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.02E-08±4.49E-08	U			3.65E-08	µCi/mL	GP	RADA-013
0	Promethium-146	7.05E-10±2.76E-09	U			4.93E-09	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well FSB 94DR collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Radium, total alpha-emitting	5.74E-09±8.93E-10				4.22E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.17E-09±6.20E-10				3.26E-10	µCi/mL	GP	RADA-008
2	Radium-228	7.28E-09±1.16E-09	J	L		1.50E-09	µCi/mL	GP	RADA-009
2	Strontium-90	3.56E-08±1.79E-09			5	9.56E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.27E-08±1.23E-08	J	I		1.98E-08	µCi/mL	GP	RADA-005
0	Technetium-99	3.13E-08±1.26E-08	J	I		1.98E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.80E-09±3.80E-09	U			4.61E-09	µCi/mL	GP	RADA-013
0	Thorium-228	1.33E-10±2.58E-10	U			5.80E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.41E-10±1.93E-10	J	I		1.21E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.57E-11±8.38E-11	U			2.33E-10	µCi/mL	GP	RADA-012
2	Tritium	8.33E-04±4.23E-06			5	4.05E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	5.89E-08±5.51E-09				1.94E-09	µCi/mL	GP	RADA-011
0	Uranium-235	4.14E-09±1.50E-09				1.12E-09	µCi/mL	GP	RADA-011
2	Uranium-238	1.12E-07±7.51E-09				1.55E-09	µCi/mL	GP	RADA-011

**WELL FSB 94DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 74.82 ft (22.81 m) below TOC  
 Water elevation: 205.68 ft (62.69 m) msl  
 pH: 3.6  
 Sp. conductance: 274 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 9:17  
 Water temperature: 22.5°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3,620	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	73.7	J	K	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	0.535	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	297			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.20	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	2.70	J	I		5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	19.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	48.9	J	I	5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	220			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	282			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	JU	Q		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	3.84	J	I		5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	10,400				250	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	184	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	23,400	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	8,350				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	16.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.23E-08±1.59E-08	U			2.03E-08	µCi/mL	GP	RADA-013
1	Americium-241	4.94E-09±5.22E-10				4.31E-11	µCi/mL	GP	RADA-011
0	Americium-243	3.35E-10±6.20E-10	U			1.28E-11	µCi/mL	GP	RADA-011
0	Antimony-125	6.31E-12±7.01E-09	U			1.24E-08	µCi/mL	GP	RADA-013
0	Barium-133	-2.14E-09±3.45E-09	U			5.48E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	8.24E-09±1.05E-08	U			1.20E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.15E-08±1.53E-08	J	I		2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.45E-10±2.84E-09	U			4.42E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.31E-08±1.02E-08				4.59E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-5.47E-10±2.63E-09	U			4.72E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			4.66E-11	µCi/mL	GP	RADA-011
1	Curium-243/244	6.74E-09±6.08E-10				9.07E-11	µCi/mL	GP	RADA-011
0	Curium-245/246	3.00E-10±1.39E-10	J	I		5.00E-11	µCi/mL	GP	RADA-011
0	Europium-152	1.84E-09±8.08E-09	U			1.36E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.81E-10±7.64E-09	U			1.40E-08	µCi/mL	GP	RADA-013
0	Europium-155	-1.87E-09±7.86E-09	U			1.34E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.20E-07±7.65E-08	J	I		8.45E-08	µCi/mL	GP	EPA900.0
2	Gross alpha	2.14E-07±2.61E-08				2.86E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	6.62E-08±4.29E-09				3.57E-09	µCi/mL	GP	RADA-006

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Second Quarter 2001



Well FSB 94DR collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead-212	6.32E-09±8.70E-09	U	V		9.09E-09	µCi/mL	GP	RADA-013
0	Lead-214	5.30E-09±6.07E-09	U			1.05E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	6.07E-11±1.71E-10	JU	L	C	4.41E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.37E-07±8.59E-08	J	I		1.59E-07	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.52E-07±2.77E-08				4.51E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			6.07E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U			4.37E-11	µCi/mL	GP	RADA-011
0	Potassium-40	1.28E-08±6.18E-08	U			4.83E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.05E-09±3.34E-09	U			5.68E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	5.76E-09±1.14E-09				5.74E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.76E-09±6.02E-10				4.99E-10	µCi/mL	GP	RADA-008
2	Radium-228	7.16E-09±9.75E-10	J	K	C	1.24E-09	µCi/mL	GP	RADA-009
2	Strontium-90	2.89E-08±2.18E-09				1.15E-09	µCi/mL	GP	RADA-004
0	Technetium-99	2.05E-08±1.40E-08	U			2.30E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.52E-10±5.67E-09	U			5.41E-09	µCi/mL	GP	RADA-013
0	Thorium-228	9.40E-11±1.40E-10	U			2.88E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.16E-10±1.15E-10	J	I		1.11E-10	µCi/mL	GP	RADA-012
0	Thorium-232	6.48E-11±7.36E-11	U			1.26E-10	µCi/mL	GP	RADA-012
2	Tritium	8.98E-04±1.74E-05			5	1.68E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	6.58E-08±4.49E-09				6.03E-10	µCi/mL	GP	RADA-011
1	Uranium-235	8.03E-09±1.61E-09				9.46E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.16E-07±5.96E-09				6.85E-10	µCi/mL	GP	RADA-011

## WELL FSB 94DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 73.6 ft (22.43 m) below TOC  
 Water elevation: 206.9 ft (63.06 m) msl  
 pH: 3.5  
 Sp. conductance: 338 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:38  
 Water temperature: 28.5°C  
 Air temperature: 34°C  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	6,890				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	129				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.206	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	0.911	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	687				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	3.70	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	9.01				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	45.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	315				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	11.9				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	378				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	405				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	7.98				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	25,600				250	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	217				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	23,900				100	µg/L	GE	EPA6010B
0	Sulfate	6,500				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<50.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	29.7				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.92E-08±1.17E-08	U			2.34E-08	µCi/mL	GP	RADA-013
2	Americium-241	9.89E-09±1.49E-09				3.65E-10	µCi/mL	GP	RADA-011
0	Americium-243	8.89E-10±1.98E-09	U			8.62E-11	µCi/mL	GP	RADA-011
0	Antimony-125	1.24E-09±7.35E-09	U			1.31E-08	µCi/mL	GP	RADA-013
0	Barium-133	-3.82E-09±4.04E-09	U			6.61E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.03E-08±6.21E-09	U			1.18E-08	µCi/mL	GP	RADA-013
0	Carbon-14	1.00E-08±2.84E-08	U			4.85E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.55E-09±2.90E-09	U			4.80E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.94E-08±1.01E-08				5.00E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-5.82E-10±2.94E-09	U			5.27E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.95E-10	µCi/mL	GP	RADA-011

ESH-EMS-20010585

Well FSB 94DR collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Curium-243/244	1.04E-08±1.53E-09				3.10E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	5.45E-10±3.77E-10	J	I		2.04E-10	µCi/mL	GP	RADA-011
0	Europium-152	1.93E-09±9.01E-09	U			1.42E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.87E-09±5.87E-09	U			1.43E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.12E-08±1.16E-08	U			1.73E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.36E-07±1.27E-08			5	2.68E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.65E-08±8.81E-09				6.13E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.88E-09±7.82E-09	U			7.87E-09	µCi/mL	GP	RADA-013
0	Lead-214	4.86E-09±6.61E-09	U			1.19E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	1.54E-10±1.74E-10	U			1.54E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	2.96E-07±1.07E-08				3.89E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.81E-11±7.44E-11	U			1.95E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	7.38E-11±1.02E-10	U			1.11E-10	µCi/mL	GP	RADA-011
0	Potassium-40	6.15E-08±3.89E-08	U			7.96E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.11E-09±3.87E-09	U			6.86E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.21E-09±1.12E-09				2.89E-10	µCi/mL	GP	RADA-010
2	Radium-226	5.18E-09±9.33E-10	J	L	C	3.94E-10	µCi/mL	GP	RADA-008
2	Radium-228	9.05E-09±8.52E-10				9.20E-10	µCi/mL	GP	RADA-009
2	Strontium-90	6.17E-08±2.32E-09			5	9.61E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.56E-08±8.98E-09	U			1.85E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.91E-09±3.21E-09	U			6.13E-09	µCi/mL	GP	RADA-013
0	Thorium-228	4.20E-10±2.26E-10	J	I		3.68E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.31E-10±1.10E-10	U			1.44E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.66E-11±6.12E-11	U			1.44E-10	µCi/mL	GP	RADA-012
2	Tritium	9.04E-04±1.75E-05				1.67E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	8.75E-08±5.01E-09				8.87E-10	µCi/mL	GP	RADA-011
1	Uranium-235	1.02E-08±1.73E-09				7.86E-10	µCi/mL	GP	RADA-011
2	Uranium-238	1.75E-07±7.07E-09				4.74E-10	µCi/mL	GP	RADA-011

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 82.4 ft (25.12 m) below TOC  
 Water elevation: 201.6 ft (61.45 m) msl  
 pH: 4  
 Sp. conductance: 1,645 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 70 gal

Time: 9:10  
 Water temperature: 20.1°C  
 Air temperature: 18.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	42,500				50.0	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	12.6				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	14.6				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	223,000				5,000	µg/L	GE	EPA353.1
0	pH	4.01	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,140				1.00	µS/cm	GE	EPA9050A
2	Specific conductance	1,140				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	4.62E-07±2.50E-08	J	I		2.97E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.59E-07±2.18E-08				4.14E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.64E-03±1.46E-09				7.94E-06	µCi/mL	GP	RADA-002

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 82.53 ft (25.16 m) below TOC  
 Water elevation: 201.47 ft (61.41 m) msl  
 pH: 3.9  
 Sp. conductance: 1,652 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 122 gal

Time: 12:15  
 Water temperature: 21.7°C  
 Air temperature: 30.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	41,800				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	42,000				50.0	µg/L	GE	EPA6010B
0	Antimony, dissolved	<10.0	JU			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<4.99	U		4	10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FSB 95CR collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Barium, total recoverable	684				5.00	µg/L	GE	EPA6010B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Beryllium, dissolved	10.6				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	11.2				5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.980	JU	Q		0.980	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Cadmium, total recoverable	12.8				5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	67,000				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	66,000	J	K	I	100	µg/L	GE	EPA6010B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloride	2,450				100	µg/L	GE	EPA9056
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, dissolved	354				5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	340				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	43.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	42.9				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	15,300				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	14,200				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.370	J	Q		0.200	µg/L	GE	EPA7470A
1	Nickel, dissolved	82.1				5.00	µg/L	GE	EPA6010B
1	Nickel, total recoverable	80.2				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	216,000				5,000	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	96,500				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	97,100				100	µg/L	GE	EPA6010B
0	Sulfate	1,030				200	µg/L	GE	EPA9056
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<4.93	JU		4	10.0	µg/L	GE	EPA6010B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Total phosphates (as P)	170				50.0	µg/L	GE	EPA365.4
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	8.40	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	234				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	227				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.13E-08±1.11E-08	U			1.84E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.29E-08±2.00E-09				9.63E-11	µCi/mL	GP	RADA-011
0	Antimony-125	1.35E-09±5.49E-09	U			9.55E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	5.79E-09±1.55E-08	U			2.87E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	5.58E-08±9.18E-09	U			6.17E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.82E-08±1.50E-08	J	I		2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-2.30E-09±2.07E-09	U			2.82E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.08E-09±2.35E-09	U			3.85E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.86E-09±2.52E-09	U			4.13E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.75E-11±7.51E-11	U			1.13E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.72E-08±2.52E-09				1.70E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	8.57E-10±3.71E-10	U			1.12E-10	µCi/mL	GP	RADA-011
0	Europium-152	-4.62E-09±6.30E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Europium-154	-2.14E-10±5.53E-09	U			9.91E-09	µCi/mL	GP	RADA-013
0	Europium-155	-3.36E-09±8.90E-09	U			1.53E-08	µCi/mL	GP	RADA-013
2	Gross alpha	2.94E-07±9.15E-09				2.33E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	8.75E-08±1.30E-08				3.89E-09	µCi/mL	GP	RADA-006

ESH-EMS-20010585

Well FSB 95CR collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead-212	2.47E-09±6.14E-09	U			6.29E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	1.07E-06±1.13E-08	J	K	I	2.85E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	1.19E-10±1.70E-10	U			3.37E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.94E-11±1.20E-10	U			2.67E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.23E-08±1.97E-08	U			4.14E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-3.80E-10±2.91E-09	U			4.27E-09	µCi/mL	GP	RADA-013
2	Radium-226	6.60E-08±2.92E-09				4.71E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.45E-08±1.42E-09				9.99E-10	µCi/mL	GP	RADA-009
2	Strontium-90	5.40E-07±6.33E-09			5	8.67E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.97E-07±2.00E-08				2.00E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.09E-09±3.06E-09	U			4.54E-09	µCi/mL	GP	RADA-013
0	Thorium-228	7.16E-10±2.63E-10	J	I		2.81E-10	µCi/mL	GP	RADA-012
0	Thorium-230	6.01E-11±7.79E-11	U			1.40E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-2.69E-13±4.67E-11	U			1.29E-10	µCi/mL	GP	RADA-012
2	Uranium-233/234	2.57E-07±5.53E-08				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.08E-08±6.27E-09				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.01E-07±6.44E-08				1.31E-09	µCi/mL	GP	RADA-011

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 82.96 ft (25.29 m) below TOC  
 Water elevation: 201.04 ft (61.28 m) msl  
 pH: 3.7  
 Sp. conductance: 1,672 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 86 gal

Time: 15:15  
 Water temperature: 21.5°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
2	Tritium	7.70E-03±1.61E-05				8.29E-07	µCi/mL	GP	RADA-002

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 82.57 ft (25.17 m) below TOC  
 Water elevation: 201.43 ft (61.4 m) msl  
 pH: 3.8  
 Sp. conductance: 154 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 66 gal

Time: 13:51  
 Water temperature: 22.9°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	46,000				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	731				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	11.4				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	12.7				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	65,800				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	351				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	79.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	24.6				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	14,400				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	6,210				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0996	J	I		0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	85.1				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	200,000				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	2,840				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	102,000				100	µg/L	GE	EPA6010B
0	Sulfate	719				200	µg/L	GE	EPA300.0

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Second Quarter 2001



Well FSB 95CR collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Thallium, total recoverable	9.91	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	50.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	256				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.73E-08±1.03E-08	R		4	1.68E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.47E-08±2.07E-09				4.00E-10	µCi/mL	GP	RADA-011
0	Americium-243	4.10E-10±3.12E-09	U			2.68E-10	µCi/mL	GP	RADA-011
0	Antimony-125	7.54E-10±4.39E-09	U			7.95E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.06E-09±2.54E-09	U			3.91E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.26E-08±1.02E-08				5.88E-09	µCi/mL	GP	RADA-013
0	Carbon-14	6.68E-08±1.68E-08				2.54E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.81E-09±1.74E-09	U			2.99E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.05E-09±3.17E-09	R		4	3.00E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.50E-09±2.75E-09	U			4.10E-09	µCi/mL	GP	RADA-013
0	Curium-242	1.67E-10±1.90E-10	U			2.50E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.89E-08±2.33E-09				4.00E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	2.43E-10±3.01E-10	U			4.64E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.85E-10±5.20E-09	U			8.65E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.35E-09±4.58E-09	U			8.18E-09	µCi/mL	GP	RADA-013
0	Europium-155	4.39E-09±8.72E-09	U			1.23E-08	µCi/mL	GP	RADA-013
2	Gross alpha	9.44E-07±1.57E-07				7.92E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	9.45E-08±5.48E-09				4.50E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.06E-09±4.14E-09	U			5.29E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.84E-08±8.97E-09				6.33E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.17E-10±2.64E-10	U			5.01E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.57E-06±9.55E-08				1.43E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	<0.00E+00	U			8.60E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.05E-11±8.06E-11	U			1.51E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.40E-09±3.71E-08				3.20E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.54E-10±2.19E-09	U			3.96E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	8.96E-08±3.37E-09				2.65E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.53E-08±3.50E-09				5.84E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.37E-08±2.00E-09	J	L	I	1.46E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.97E-07±8.03E-09			5	1.03E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.88E-07±1.68E-08				1.92E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.73E-09±3.86E-09	U			3.81E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.82E-10±1.32E-10	J	I		1.47E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.23E-11±6.20E-11	U			1.36E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.47E-11±2.88E-11	U			4.41E-11	µCi/mL	GP	RADA-012
2	Tritium	6.44E-03±1.23E-05			5	4.11E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.14E-07±1.62E-08				1.65E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.61E-08±4.72E-09				1.66E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.37E-07±1.68E-08				6.56E-10	µCi/mL	GP	RADA-011

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
Depth to water: 83.6 ft (25.48 m) below TOC  
Water elevation: 200.4 ft (61.08 m) msl  
pH: 3.7  
Sp. conductance: 1,583 µS/cm  
Turbidity: 1 NTU  
No water was evacuated from the well prior to sampling.

Time: 14:03  
Water temperature: 24.4°C  
Air temperature: Not available  
Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	48,000	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	701	J	K	I	5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	11.5				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	12.8				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	61,500			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.08	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	348				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	89.8				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			5.00	µg/L	GE	EPA6010B
1	Lead, total recoverable	28.5				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	14,500			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	6,250			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.0920	J	I		0.200	µg/L	GE	EPA4770A
1	Nickel, total recoverable	83.3				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	184,000				2,500	µg/L	GE	EPA300.0

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Well FSB 95CR collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Nitrite as nitrogen	99.0				50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	2,780	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	101,000	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
2	Thallium, total recoverable	8.17	J	I		10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	70.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	262				5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.04E-08±2.12E-08	R		4	2.98E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.86E-08±2.71E-09				1.77E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.46E-09±5.54E-09	U			1.65E-09	µCi/mL	GP	RADA-011
0	Antimony-125	5.62E-09±1.00E-08	U			1.59E-08	µCi/mL	GP	RADA-013
0	Barium-133	2.85E-09±4.61E-09	U			7.31E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	7.75E-08±1.97E-08				9.94E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.13E-08±1.50E-08	J	I		2.42E-08	µCi/mL	GP	RADA-003
0	Cesium-134	1.95E-09±3.33E-09	U			5.35E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.87E-08±5.39E-09	R		4	1.00E-08	µCi/mL	GP	RADA-013
0	Cobalt-60	4.34E-09±4.23E-09	U			6.22E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.84E-11±6.32E-10	U			1.78E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	2.27E-08±3.05E-09				2.28E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	5.28E-10±6.25E-10	U			1.07E-09	µCi/mL	GP	RADA-011
0	Europium-152	2.59E-09±8.84E-09	U			1.57E-08	µCi/mL	GP	RADA-013
0	Europium-154	1.15E-08±7.42E-09	U			1.66E-08	µCi/mL	GP	RADA-013
0	Europium-155	-4.33E-09±1.27E-08	U			2.10E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.28E-07±2.93E-08			5	3.12E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	9.81E-08±1.37E-08				4.64E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.17E-09±8.01E-09	U			9.87E-09	µCi/mL	GP	RADA-013
0	Lead-214	7.15E-08±1.73E-08				1.13E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-2.82E-13±6.78E-11	U			2.16E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.44E-06±1.09E-08				4.29E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.32E-11±1.64E-10	U			4.32E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.77E-11±7.06E-11	U			2.12E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.15E-08±3.55E-08	U			7.02E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.28E-09±3.97E-09	U			6.64E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.45E-08±4.46E-09				4.29E-10	µCi/mL	GP	RADA-010
2	Radium-226	6.30E-08±3.15E-09				5.73E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.54E-08±1.76E-09	J	K	C	1.35E-09	µCi/mL	GP	RADA-009
2	Strontium-90	5.22E-07±9.93E-09				1.26E-09	µCi/mL	GP	RADA-004
0	Technetium-99	1.79E-07±1.87E-08				2.36E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.41E-09±3.44E-09	U			6.39E-09	µCi/mL	GP	RADA-013
0	Thorium-228	2.57E-10±1.58E-10	J			2.65E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.07E-10±6.03E-11	U	I		2.66E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.14E-11±2.76E-11	U			6.17E-11	µCi/mL	GP	RADA-012
2	Tritium	6.52E-03±1.67E-09			5	5.24E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	2.87E-07±1.08E-08				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.46E-08±3.20E-09				1.11E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.49E-07±1.19E-08				9.26E-10	µCi/mL	GP	RADA-011

## WELL FSB 95CR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
Depth to water: 82.6 ft (25.18 m) below TOC  
Water elevation: 201.4 ft (61.39 m) msl  
pH: 3.5  
Sp. conductance: 1,661 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 64 gal

Time: 8:46  
Water temperature: 21.4°C  
Air temperature: 30.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	47,100				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	720				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	11.2				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	12.7				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	62,300				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	345				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	43.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B

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Second Quarter 2001



Well FSB 95CR collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	4.08	J	I		5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	13,900				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	6,190				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.192	J	I		0.200	µg/L	GE	EPA7470A
1	Nickel, total recoverable	80.8				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	196,000				2,500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	2,660				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	101,000				100	µg/L	GE	EPA6010B
0	Sulfate	671				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<60.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	230				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.64E-08±3.17E-08	U			3.53E-08	µCi/mL	GP	RADA-013
2	Americium-241	1.65E-08±4.98E-09				2.41E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.06E-09±1.12E-08	U			2.88E-09	µCi/mL	GP	RADA-011
0	Antimony-125	1.08E-09±1.02E-08	U			1.72E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.33E-09±5.25E-09	U			7.57E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.27E-08±1.79E-08	R		4	2.05E-08	µCi/mL	GP	RADA-013
0	Carbon-14	4.67E-09±2.76E-08	U			4.75E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-3.45E-09±4.49E-09	U			6.39E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.81E-09±4.26E-09	U			7.84E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.11E-09±4.56E-09	U			8.55E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			1.31E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.98E-08±5.40E-09				1.16E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	1.80E-09±1.76E-09	J	I		1.35E-09	µCi/mL	GP	RADA-011
0	Europium-152	-1.98E-09±1.03E-08	U			1.71E-08	µCi/mL	GP	RADA-013
0	Europium-154	8.11E-09±1.28E-08	U			2.40E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.05E-08±1.03E-08	U			1.82E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.96E-07±1.29E-07				5.48E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	1.02E-07±1.29E-08				3.43E-09	µCi/mL	GP	RADA-006
0	Lead-212	9.32E-09±7.71E-09	U	V		1.15E-08	µCi/mL	GP	RADA-013
0	Lead-214	3.76E-08±1.40E-08	J	I		1.22E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	3.90E-10±2.29E-10	J	I		3.24E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	1.36E-06±1.49E-07				1.28E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	3.94E-11±7.72E-11	U			1.18E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.94E-11±7.72E-11	U			1.18E-10	µCi/mL	GP	RADA-011
0	Potassium-40	4.82E-08±4.94E-08	U			8.92E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.41E-09±4.74E-09	U			8.16E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	9.79E-08±3.57E-09				3.83E-10	µCi/mL	GP	RADA-010
2	Radium, total alpha-emitting	9.45E-08±3.49E-09				2.67E-10	µCi/mL	GP	RADA-010
2	Radium-226	7.51E-08±3.48E-09	J	L	C	3.89E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.02E-08±1.10E-09				8.04E-10	µCi/mL	GP	RADA-009
2	Strontium-90	5.32E-07±6.27E-09			5	6.70E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.70E-07±1.78E-08				1.84E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.55E-09±7.14E-09	U			8.86E-09	µCi/mL	GP	RADA-013
0	Thorium-228	-8.13E-11±5.37E-11	U			4.00E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.29E-11±1.19E-10	U			2.87E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-9.91E-12±1.94E-11	U			2.18E-10	µCi/mL	GP	RADA-012
2	Tritium	6.23E-03±1.14E-09				5.02E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	3.31E-07±1.21E-08				1.02E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.76E-08±3.54E-09				1.31E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.87E-07±1.31E-08				1.02E-09	µCi/mL	GP	RADA-011

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 72.3 ft (22.04 m) below TOC  
 Water elevation: 211.8 ft (64.56 m) msl  
 pH: 3.7  
 Sp. conductance: 643 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 50 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	10,600				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.492				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	0.548	J	I		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	6.48				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	66,500				2,500	µg/L	GE	EPA353.1

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Well FSB 95DR collected on 04/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	pH	3.62	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	470				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	6.74E-07±2.64E-08	J	I		2.88E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.81E-07±1.83E-08				4.26E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.15E-03±4.15E-05				3.76E-06	µCi/mL	GP	RADA-002

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 76.96 ft (23.46 m) below TOC  
 Water elevation: 207.14 ft (63.14 m) msl  
 pH: 3.6  
 Sp. conductance: 692 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 29 gal

Time: 11:21  
 Water temperature: 22.6°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, dissolved	9,400				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	9,280				50.0	µg/L	GE	EPA6010B
1	Antimony, dissolved	4.55	J	I		10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	161				5.00	µg/L	GE	EPA6010B
0	Beryllium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.294	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.07	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, dissolved	895				100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	720	J	K	I	100	µg/L	GE	EPA6010B
0	Chloride	714				100	µg/L	GE	EPA9056
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, dissolved	8.41				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	8.26				5.00	µg/L	GE	EPA6010B
0	Copper, dissolved	22.3				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	20.3				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Lead, total recoverable	8.29				5.00	µg/L	GE	EPA6010B
0	Magnesium, dissolved	300				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	271				20.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.497	J	Q		0.200	µg/L	GE	EPA7470A
0	Nickel, dissolved	7.53				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	7.32				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	60,500				2,500	µg/L	GE	EPA353.1
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, dissolved	75,900				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	74,900				100	µg/L	GE	EPA6010B
0	Sulfate	28,200				200	µg/L	GE	EPA9056
0	Thallium, dissolved	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<140	U	V		50.0	µg/L	GE	EPA365.4
0	Vanadium, dissolved	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, dissolved	28.5				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	27.9				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.58E-08±8.74E-09	R		4	1.24E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.27E-08±4.43E-09	J	K	I	1.62E-09	µCi/mL	GP	RADA-011
0	Antimony-125	9.49E-10±4.18E-09	U			7.39E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	5.64E-09±1.02E-08	U			1.85E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	3.40E-09±4.74E-09	U			5.58E-09	µCi/mL	GP	RADA-013
0	Carbon-14	9.22E-08±1.67E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-5.39E-10±1.45E-09	U			2.12E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.37E-07±6.26E-09				2.47E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	3.45E-10±1.45E-09	U			2.65E-09	µCi/mL	GP	RADA-013
0	Curium-242	-2.08E-10±1.60E-10	U			1.12E-09	µCi/mL	GP	RADA-011
2	Curium-243/244	1.14E-08±2.76E-09			5	1.65E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	7.44E-10±6.43E-10	U			8.23E-10	µCi/mL	GP	RADA-011
0	Europium-152	-1.76E-09±4.18E-09	U			7.25E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.11E-10±3.51E-09	U			6.35E-09	µCi/mL	GP	RADA-013
0	Europium-155	1.28E-09±5.51E-09	U			9.57E-09	µCi/mL	GP	RADA-013
2	Gross alpha	6.69E-07±1.25E-08				1.90E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	2.92E-07±3.54E-08				4.37E-09	µCi/mL	GP	RADA-006
0	Lead-212	3.20E-09±2.94E-09	U			5.08E-09	µCi/mL	GP	RADA-013
2	Nonvolatile beta	4.93E-07±6.69E-09	J	K	I	1.83E-09	µCi/mL	GP	EPA900.0

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Second Quarter 2001



Well FSB 95DR collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Plutonium-238	-4.20E-11±1.73E-10	U			4.95E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-8.11E-12±1.63E-11	U			1.78E-10	µCi/mL	GP	RADA-011
0	Potassium-40	4.97E-10±2.44E-08	U			2.33E-08	µCi/mL	GP	RADA-013
0	Promethium-146	5.13E-10±2.10E-09	U			3.70E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.05E-09±4.35E-10	J	I		3.78E-10	µCi/mL	GP	RADA-008
2	Radium-228	1.97E-08±1.25E-09				9.75E-10	µCi/mL	GP	RADA-009
2	Strontium-90	3.78E-08±1.66E-09			5	7.03E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.28E-07±1.68E-08				2.00E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.32E-09±3.62E-09	U			2.48E-09	µCi/mL	GP	RADA-013
0	Thorium-228	8.22E-10±2.32E-10				2.03E-10	µCi/mL	GP	RADA-012
0	Thorium-228	7.09E-10±2.05E-10				1.77E-10	µCi/mL	GP	RADA-012
0	Thorium-230	3.55E-11±8.36E-11	U	V		1.61E-10	µCi/mL	GP	RADA-012
0	Thorium-230	4.03E-11±6.02E-11	U	V		1.09E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-3.98E-12±2.59E-11	U			7.77E-11	µCi/mL	GP	RADA-012
0	Thorium-232	2.58E-11±3.00E-11	U			2.58E-11	µCi/mL	GP	RADA-012
2	Uranium-233/234	1.08E-07±1.64E-08				6.17E-10	µCi/mL	GP	RADA-011
1	Uranium-235	9.80E-09±2.32E-09				2.67E-10	µCi/mL	GP	RADA-011
2	Uranium-238	3.41E-07±4.92E-08				6.17E-10	µCi/mL	GP	RADA-011

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 77.94 ft (23.76 m) below TOC  
 Water elevation: 206.16 ft (62.84 m) msl  
 pH: 3.4  
 Sp. conductance: 663 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 53 gal

Time: 14:54  
 Water temperature: 21.6°C  
 Air temperature: 27.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bis(2-ethylhexyl) phthalate	<0.225		V		1.00	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	2.18				1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<0.776	U	V		5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Phenols	<5.00	U			5.00	µg/L	GE	EPA9066
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<0.346	U	V		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.461	J	I		1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
2	Trithion	2.07E-03±8.21E-06				8.01E-07	µCi/mL	GP	RADA-002

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 77.57 ft (23.64 m) below TOC  
 Water elevation: 206.53 ft (62.95 m) msl  
 pH: 3.6  
 Sp. conductance: 742 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 12:23  
 Water temperature: 26.2°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	11.900				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	178				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.316	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.30	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	949				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	9.13				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	233				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	355				50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	34.3				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	482				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	767				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.150	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	14.7				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	72.200				1.000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	345				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	105,000				100	µg/L	GE	EPA6010B
0	Sulfate	37.100				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	60.0				50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	207				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.75E-08±1.52E-08	U			1.93E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.70E-08±2.84E-09				2.34E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.90E-09±3.24E-09	U			4.49E-10	µCi/mL	GP	RADA-011
0	Antimony-125	6.18E-09±6.56E-09	U			1.15E-08	µCi/mL	GP	RADA-013
0	Barium-133	-6.69E-10±3.38E-09	U			4.87E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	6.92E-09±7.97E-09	U			9.62E-09	µCi/mL	GP	RADA-013
0	Carbon-14	2.93E-08±1.55E-08	J	I		2.52E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-8.83E-10±2.41E-09	U			3.56E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.73E-07±9.27E-09				3.91E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-3.36E-10±1.89E-09	U			3.45E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			2.58E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.24E-08±1.93E-09				4.87E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.18E-09±6.41E-10	J	I		2.72E-10	µCi/mL	GP	RADA-011
0	Europium-152	1.95E-09±7.22E-09	U			1.08E-08	µCi/mL	GP	RADA-013
0	Europium-154	9.47E-11±6.52E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Europium-155	2.06E-09±6.84E-09	U			1.18E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.36E-07±1.21E-07				4.26E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	4.46E-07±5.51E-08				7.54E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.91E-09±3.95E-09	U			6.92E-09	µCi/mL	GP	RADA-013
0	Lead-214	9.61E-09±1.08E-08	U			9.65E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	5.81E-12±2.23E-10	U			6.86E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.51E-07±7.93E-08				1.23E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	2.08E-11±4.08E-11	U			6.25E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	2.96E-11±6.26E-11	U			1.45E-10	µCi/mL	GP	RADA-011
0	Potassium-40	1.31E-08±2.65E-08	U			4.44E-08	µCi/mL	GP	RADA-013
0	Promethium-146	1.05E-09±3.15E-09	U			5.62E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.12E-08±1.21E-09				3.57E-10	µCi/mL	GP	RADA-010
1	Radium-226	2.93E-09±7.29E-10				3.37E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.37E-08±2.03E-09	J	L	I	1.63E-09	µCi/mL	GP	RADA-009
2	Strontium-90	6.63E-08±2.74E-09			5	9.92E-10	µCi/mL	GP	RADA-004
0	Technetium-99	2.08E-07±1.68E-08				1.85E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.65E-09±2.44E-09	U			4.62E-09	µCi/mL	GP	RADA-013
0	Thorium-228	8.69E-10±3.22E-10	J	I		3.17E-10	µCi/mL	GP	RADA-012
0	Thorium-228	4.24E-10±2.51E-10	J	I		3.82E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.38E-11±1.40E-10	U			3.49E-10	µCi/mL	GP	RADA-012



Well FSB 95DR collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thorium-230	-8.29E-13±1.15E-10	U			3.07E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.48E-10±1.30E-10	J	I		8.91E-11	µCi/mL	GP	RADA-012
0	Thorium-232	1.09E-10±1.72E-10	U			3.41E-10	µCi/mL	GP	RADA-012
2	Tritium	2.32E-03±7.28E-06			5	4.03E-07	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.30E-07±1.01E-08				1.39E-09	µCi/mL	GP	RADA-011
2	Uranium-235	1.62E-08±3.63E-09				1.72E-09	µCi/mL	GP	RADA-011
2	Uranium-238	4.10E-07±1.80E-08				1.39E-09	µCi/mL	GP	RADA-011

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 78.05 ft (23.79 m) below TOC  
 Water elevation: 206.05 ft (62.8 m) msl  
 pH: 3.5  
 Sp. conductance: 760 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 13:30  
 Water temperature: 24°C  
 Air temperature: 35.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	11,200	J	K	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	171	J	K	I	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.282	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.42	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	1,260			5	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	0.994	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	10.1				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	182				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
2	Iron, total recoverable	443			5	50.0	µg/L	GE	EPA6010B
1	Lead, total recoverable	25.6				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	487			5	20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	756			5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	11.5				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	70,400				500	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	340	J	L	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	99,700	J	K	I	100	µg/L	GE	EPA6010B
0	Sulfate	35,600				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	158				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.28E-08±1.42E-08	U			1.95E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.80E-08±5.19E-09				1.73E-09	µCi/mL	GP	RADA-011
0	Americium-243	1.52E-09±8.99E-09	U			3.86E-10	µCi/mL	GP	RADA-011
0	Antimony-125	3.64E-09±6.27E-09	U			1.12E-08	µCi/mL	GP	RADA-013
0	Barium-133	5.02E-10±2.86E-09	U			4.96E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.09E-08±1.08E-08	R		4	8.95E-09	µCi/mL	GP	RADA-013
0	Carbon-14	8.23E-08±1.69E-08				2.46E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-7.66E-10±2.27E-09	U			3.48E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.60E-07±1.75E-08				3.99E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.77E-09±1.77E-09	U			3.98E-09	µCi/mL	GP	RADA-013
0	Curium-242	<0.00E+00	U			8.50E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	9.87E-09±3.08E-09				1.55E-09	µCi/mL	GP	RADA-011
2	Curium-245/246	9.76E-08±1.04E-08				1.80E-09	µCi/mL	GP	RADA-011
0	Europium-152	2.81E-09±6.63E-09	U			1.17E-08	µCi/mL	GP	RADA-013
0	Europium-154	-1.13E-09±5.60E-09	U			8.64E-09	µCi/mL	GP	RADA-013
0	Europium-155	7.55E-09±8.32E-09	U			1.51E-08	µCi/mL	GP	RADA-013
2	Gross alpha	6.07E-07±2.55E-08			5	3.11E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	4.77E-07±1.45E-08				1.01E-08	µCi/mL	GP	RADA-006
0	Lead-212	2.63E-09±4.16E-09	U			7.35E-09	µCi/mL	GP	RADA-013
0	Lead-214	6.81E-09±4.99E-09	U			9.17E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	3.76E-10±2.67E-10	R		4	3.46E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	5.90E-07±9.62E-09				4.43E-09	µCi/mL	GP	EPA900.0

Well FSB 95DR collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Plutonium-238	3.36E-10±1.87E-10	J	I		2.84E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.83E-11±5.43E-11	U			9.68E-11	µCi/mL	GP	RADA-011
0	Potassium-40	5.67E-08±2.71E-08	U			5.98E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-6.02E-10±3.17E-09	U			5.26E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.53E-08±1.87E-09				6.22E-10	µCi/mL	GP	RADA-010
1	Radium-226	4.15E-09±8.98E-10				3.64E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.73E-08±1.82E-09	J	K	C	1.44E-09	µCi/mL	GP	RADA-009
2	Strontium-90	6.10E-08±3.80E-09				1.75E-09	µCi/mL	GP	RADA-004
0	Techneium-99	1.15E-07±1.66E-08				2.28E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.66E-09±4.66E-09	U			4.43E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.90E-11±1.49E-10	U			2.92E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.22E-10±8.16E-11	J	I		1.10E-10	µCi/mL	GP	RADA-012
0	Thorium-232	2.82E-12±2.43E-11	U			6.99E-11	µCi/mL	GP	RADA-012
2	Tritium	2.45E-03±6.37E-05			5	2.91E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.10E-07±8.82E-09				1.91E-09	µCi/mL	GP	RADA-011
1	Uranium-235	1.38E-08±3.19E-09				1.77E-09	µCi/mL	GP	RADA-011
2	Uranium-238	3.68E-07±1.61E-08				5.51E-10	µCi/mL	GP	RADA-011

## WELL FSB 95DR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 78.35 ft (23.88 m) below TOC  
 Water elevation: 205.75 ft (62.71 m) msl  
 pH: 3.3  
 Sp. conductance: 880 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 9:14  
 Water temperature: 24.1°C  
 Air temperature: 30.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	12,300				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	173				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.247	J	I		5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	1.39	J	I		5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	432				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.31	J	I		5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	7.82				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	113				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
1	Iron, total recoverable	244				50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	11.9				5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	395				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	765				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	11.5				5.00	µg/L	GE	EPA6010B
2	Nitrate as nitrogen	79,600				1,000	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	309	U			100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	115,000				100	µg/L	GE	EPA6010B
0	Sulfate	39,000				200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0				10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<30.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	71.3				5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.11E-08±2.18E-08	U			2.32E-08	µCi/mL	GP	RADA-013
2	Americium-241	2.86E-08±1.99E-09				2.49E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.99E-09±1.60E-09	J	I		4.11E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-7.65E-09±7.61E-09	U			1.25E-08	µCi/mL	GP	RADA-013
0	Barium-133	-1.17E-10±3.50E-09	U			6.11E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	1.14E-08±6.54E-09	R		4	1.10E-08	µCi/mL	GP	RADA-013
0	Carbon-14	5.31E-08±2.96E-08	J	I		4.80E-08	µCi/mL	GP	RADA-003
0	Cesium-134	3.69E-09±2.73E-09	U			4.76E-09	µCi/mL	GP	RADA-013
1	Cesium-137	1.92E-07±2.07E-08				4.63E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.40E-09±2.60E-09	U			4.94E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.03E-11±6.51E-11	U			2.10E-10	µCi/mL	GP	RADA-011
2	Curium-243/244	1.18E-08±1.27E-09				2.50E-10	µCi/mL	GP	RADA-011



Well FSB 95DR collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Curium-245/246	2.46E-09±6.28E-10	R		4	1.25E-10	µCi/mL	GP	RADA-011
0	Europium-152	-5.32E-10±7.94E-09	U			1.39E-08	µCi/mL	GP	RADA-013
0	Europium-154	2.77E-09±7.64E-09	U			1.42E-08	µCi/mL	GP	RADA-013
0	Europium-155	4.33E-09±8.85E-09	U			1.54E-08	µCi/mL	GP	RADA-013
2	Gross alpha	7.76E-07±1.45E-07				9.39E-08	µCi/mL	GP	EPA900.0
2	Iodine-129	5.39E-07±2.26E-08				1.86E-08	µCi/mL	GP	RADA-006
0	Lead-212	1.85E-08±5.90E-09	R		4	1.02E-08	µCi/mL	GP	RADA-013
0	Lead-214	3.19E-09±8.39E-09	U			1.08E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-1.18E-11±2.31E-11	U			2.59E-10	µCi/mL	GP	RADA-032
2	Nonvolatile beta	6.60E-07±1.17E-07				1.49E-07	µCi/mL	GP	EPA900.0
0	Plutonium-238	-9.85E-12±1.93E-11	U			2.17E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	8.20E-11±1.14E-10	U			1.23E-10	µCi/mL	GP	RADA-011
0	Potassium-40	3.27E-08±5.03E-08	U			4.76E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.36E-09±3.84E-09	U			6.81E-09	µCi/mL	GP	RADA-013
2	Radium, total alpha-emitting	1.20E-08±1.24E-09				2.63E-10	µCi/mL	GP	RADA-010
1	Radium-226	3.95E-09±9.71E-10	J	L	C	6.16E-10	µCi/mL	GP	RADA-008
2	Radium-228	2.41E-08±1.21E-09				8.68E-10	µCi/mL	GP	RADA-009
2	Strontium-90	4.94E-08±1.95E-09			5	7.66E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.02E-07±1.49E-08				1.90E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.20E-09±5.36E-09	U			6.22E-09	µCi/mL	GP	RADA-013
0	Thorium-228	5.83E-10±2.24E-10	J	I		2.43E-10	µCi/mL	GP	RADA-012
0	Thorium-230	9.64E-11±1.04E-10	U			1.81E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.10E-11±4.38E-11	U			1.32E-10	µCi/mL	GP	RADA-012
2	Tritium	2.53E-03±4.79E-05			5	3.01E-06	µCi/mL	GP	RADA-002
2	Uranium-233/234	1.51E-07±8.53E-09				1.22E-09	µCi/mL	GP	RADA-011
2	Uranium-235	2.12E-08±3.20E-09				3.77E-10	µCi/mL	GP	RADA-011
2	Uranium-238	5.03E-07±1.56E-08				7.99E-10	µCi/mL	GP	RADA-011

## WELL FSB 96AR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 129.44 ft (39.45 m) below TOC  
 Water elevation: 151.76 ft (46.26 m) msl  
 pH: 7.5  
 Sp. conductance: 178 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 107 gal

Time: 13:30  
 Water temperature: 21.7°C  
 Air temperature: 27.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 67 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0750	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	2,360				50.0	µg/L	GE	EPA353.1
0	pH	7.66	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	145				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.39E-09±1.84E-09	U			3.58E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.98E-09±3.08E-09	JU	L	I	6.60E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.04E-05±1.31E-06				7.31E-07	µCi/mL	GP	RADA-002

## WELL FSB 97A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 135.32 ft (41.25 m) below TOC  
 Water elevation: 150.78 ft (45.96 m) msl  
 pH: 7.2  
 Sp. conductance: 278 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 102 gal

Time: 14:15  
 Water temperature: 21.6°C  
 Air temperature: 29.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 76 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Aluminum, total recoverable	42.1	J	I		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0660	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	14,900				250	µg/L	GE	EPA353.1
0	pH	6.75	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	178				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.22E-09±1.48E-09	J	I		2.02E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.58E-09±2.07E-09	J	I		3.37E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.59E-04±4.14E-06				7.07E-07	µCi/mL	GP	RADA-002

## WELL FSB 97C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 81.65 ft (24.89 m) below TOC  
 Water elevation: 204.45 ft (62.32 m) msl  
 pH: 4.1  
 Sp. conductance: 688 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 48 gal

Time: 9:05  
 Water temperature: 12.7°C  
 Air temperature: 5.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	14,600				50.0	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	5.20				0.200	µg/L	GE	EPA6020
1	Cadmium, total recoverable	4.28				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	5.52				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	82,000				2,500	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	84,000				2,500	µg/L	GE	EPA353.1
0	pH	4.00	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	516				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	3.34E-07±2.57E-08				3.43E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	2.83E-07±2.42E-08				5.21E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.22E-07±2.04E-08				6.12E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.36E-07±2.07E-08				6.96E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.50E-03±9.54E-06				6.70E-07	µCi/mL	GP	RADA-002
2	Tritium	2.52E-03±9.75E-06				6.94E-07	µCi/mL	GP	RADA-002



## WELL FSB 97D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 78.65 ft (23.97 m) below TOC  
 Water elevation: 207.35 ft (63.2 m) msl  
 pH: 4.4  
 Sp. conductance: 327 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 10:37  
 Water temperature: 25.3°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	5.850				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.684				0.200	µg/L	GE	EPA6020
1	Cadmium, total recoverable	4.27				1.00	µg/L	GE	EPA6020
2	Lead, total recoverable	172				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	32,300				1,250	µg/L	GE	EPA353.1
0	pH	6.13	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	203				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.71E-07±1.26E-08	J		I	2.56E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.66E-07±1.50E-08				4.18E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.71E-04±1.12E-05			5	1.69E-06	µCi/mL	GP	RADA-002

## WELL FSB 98AR

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 133.72 ft (40.76 m) below TOC  
 Water elevation: 150.28 ft (45.81 m) msl  
 pH: 7.5  
 Sp. conductance: 170 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 121 gal

Time: 14:22  
 Water temperature: 20.1°C  
 Air temperature: 15.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 47 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
1	Aluminum, total recoverable	26.4	J	I		146	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<0.300	JU		4	1.60	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<0.0840	U	V		1.00	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	3,900			X	150	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	4,320				200	µg/L	WA	EPA353.2
0	pH	7.12	J	Q		0.100	pH	GE	EPA9040B
0	pH	7.70	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	128				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	159				8.90	µS/cm	WA	EPA9050A
0	Gross alpha	-2.55E-10±2.49E-09	U			6.59E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	4.27E-09±3.84E-09	U			1.61E-08	µCi/mL	ML	EPA900.0
0	Gross alpha	4.35E-09±3.88E-09	U			1.63E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	7.91E-09±3.72E-09	J	I		6.96E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.39E-08±4.74E-09	U			1.52E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	5.99E-09±3.82E-09	U			1.53E-08	µCi/mL	ML	EPA900.0
2	Tritium	6.27E-05±1.59E-06				7.08E-07	µCi/mL	GP	RADA-002
2	Tritium	5.66E-05±1.61E-06				5.90E-07	µCi/mL	ML	RADA-002
2	Tritium	5.64E-05±1.60E-06				5.88E-07	µCi/mL	ML	RADA-002

## WELL FSB 98AR Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 133.72 ft (40.76 m) below TOC  
 Water elevation: 150.28 ft (45.81 m) msl  
 pH: 7.5  
 Sp. conductance: 170 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 121 gal

Time: 14:22  
 Water temperature: 20.1°C  
 Air temperature: 15.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 47 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.112	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,990				150	µg/L	GE	EPA353.1
0	pH	7.42	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	122				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	6.80E-10±1.00E-09	U			1.95E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.98E-09±2.19E-09				3.34E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.24E-05±1.57E-06				6.94E-07	µCi/mL	GP	RADA-002

## WELL FSB 98C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 78.44 ft (23.91 m) below TOC  
 Water elevation: 206.06 ft (62.81 m) msl  
 pH: 3.8  
 Sp. conductance: 557 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 81 gal

Time: 9:29  
 Water temperature: 22.8°C  
 Air temperature: 21.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	9,320				50.0	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.02				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	7.11				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	61,300				1,250	µg/L	GE	EPA353.1
1	pH	3.64	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	447				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.54E-07±1.62E-08	J		I	3.55E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.65E-07±1.54E-08				4.66E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.06E-03±4.01E-05			5	3.40E-06	µCi/mL	GP	RADA-002

## WELL FSB 98D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 74.9 ft (22.83 m) below TOC  
 Water elevation: 209.6 ft (63.89 m) msl  
 pH: 5.6  
 Sp. conductance: 715 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 13:31  
 Water temperature: 17.6°C  
 Air temperature: 14.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	808				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.0510	JU		4	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.306	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	62,000				1,250	µg/L	GE	EPA353.1
0	pH	5.76	J	Q		0.100	pH	GE	EPA9040B



Well FSB 98D collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Specific conductance	482				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.47E-08±5.61E-09				3.75E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.85E-08±6.11E-09				4.68E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.28E-03±9.33E-06				7.02E-07	µCi/mL	GP	RADA-002

**WELL FSB 99A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 138.31 ft (42.16 m) below TOC  
 Water elevation: 149.29 ft (45.5 m) msl  
 pH: 7.2  
 Sp. conductance: 146 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 15:29  
 Water temperature: 21.3°C  
 Air temperature: 29.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 51 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	4.380				150	µg/L	GE	EPA353.1
0	pH	6.80	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	110				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.10E-09±8.33E-10				1.14E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.29E-09±1.19E-09	J	I		1.97E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.93E-05±2.13E-06				9.63E-07	µCi/mL	GP	RADA-002

**WELL FSB 99C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 79.45 ft (24.22 m) below TOC  
 Water elevation: 208.25 ft (63.48 m) msl  
 pH: 5.9  
 Sp. conductance: 651 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 82 gal

Time: 10:18  
 Water temperature: 18.2°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1.210				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.459				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	0.784	J	I		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	60.500				1.250	µg/L	GE	EPA353.1
0	pH	5.73	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	463				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.28E-07±1.93E-08				8.89E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.87E-08±7.09E-09				4.77E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.95E-03±8.56E-06				6.92E-07	µCi/mL	GP	RADA-002

**WELL FSB 99D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 74.81 ft (22.8 m) below TOC  
 Water elevation: 212.79 ft (64.86 m) msl  
 pH: 4.4  
 Sp. conductance: 740 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 29 gal

Time: 11:47  
 Water temperature: 23.5°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	657				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.200				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0800				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	14.4				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	63.500				2.500	µg/L	GE	EPA353.1
0	pH	4.46	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	586				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.12E-08±5.74E-09				4.59E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.44E-08±5.77E-09				7.06E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.17E-03±4.22E-05				4.56E-06	µCi/mL	GP	RADA-002

**WELL FSB100A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 136.16 ft (41.5 m) below TOC  
 Water elevation: 149.84 ft (45.67 m) msl  
 pH: 7.5  
 Sp. conductance: 162 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 80 gal

Time: 14:16  
 Water temperature: 20.4°C  
 Air temperature: 14.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 55 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0760				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3.000				150	µg/L	GE	EPA353.1
0	pH	7.06	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	121				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	6.56E-10±1.84E-09				4.48E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.58E-09±3.08E-09				6.41E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.46E-05±1.34E-06				6.94E-07	µCi/mL	GP	RADA-002

**WELL FSB101A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 108.48 ft (33.07 m) below TOC  
 Water elevation: 176.72 ft (53.86 m) msl  
 pH: 7.6  
 Sp. conductance: 154 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 129 gal

Time: 15:20  
 Water temperature: 19.4°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 57 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0690				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1.540				50.0	µg/L	GE	EPA353.1
0	pH	7.33	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	114				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	8.30E-10±1.18E-09				2.38E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	-9.15E-10±1.15E-09				3.82E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.76E-09±2.04E-09				4.14E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.57E-09±2.17E-09				5.59E-09	µCi/mL	GP	EPA900.0



Well FSB101A collected on 04/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	6.21E-07±4.18E-07	U			6.82E-07	µCi/mL	GP	RADA-002
0	Tritium	1.52E-07±4.03E-07	U			6.92E-07	µCi/mL	GP	RADA-002

**WELL FSB102C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 7.5 ft (2.29 m) below TOC  
 Water elevation: 193.6 ft (59.01 m) msl  
 pH: 5.2  
 Sp. conductance: 152 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 14:31  
 Water temperature: 19.1°C  
 Air temperature: 19.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	252				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.773				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	2.13				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	14,300				250	µg/L	GE	EPA353.1
0	pH	4.82	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	102				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	4.80E-09±2.81E-09	J	I		4.08E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.49E-07±1.05E-08				7.47E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.69E-04±2.99E-06				5.87E-07	µCi/mL	GP	RADA-002

**WELL FSB103C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 47.38 ft (14.44 m) below TOC  
 Water elevation: 195.02 ft (59.44 m) msl  
 pH: 5.8  
 Sp. conductance: 248 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 73 gal

Time: 12:11  
 Water temperature: 19.2°C  
 Air temperature: 14.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.102	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.264	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	27,500				1,250	µg/L	GE	EPA353.1
0	pH	5.87	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	194				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.51E-09±1.43E-09	U			2.15E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.31E-08±3.39E-09				4.18E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.60E-04±4.53E-06				6.86E-07	µCi/mL	GP	RADA-002

**WELL FSB104C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 24.12 ft (7.35 m) below TOC  
 Water elevation: 194.98 ft (59.43 m) msl  
 pH: 5  
 Sp. conductance: 476 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 80 gal

Time: 9:59  
 Water temperature: 19.9°C  
 Air temperature: 23.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	51.7				50.0	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	2.12				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.02				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B

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Well FSB104C collected on 04/24/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nitrate-nitrite as nitrogen	54,500				2,500	µg/L	GE	EPA353.1
0	pH	5.19	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	385				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	3.48E-09±2.56E-09	U			4.16E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	2.88E-08±5.48E-09				7.55E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.85E-04±1.93E-05				2.97E-06	µCi/mL	GP	RADA-002

**WELL FSB104D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 22.51 ft (6.86 m) below TOC  
 Water elevation: 196.69 ft (59.95 m) msl  
 pH: 4.1  
 Sp. conductance: 56 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 11:37  
 Water temperature: 16.8°C  
 Air temperature: 18.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	752				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.386	J	K	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.184	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,120				150	µg/L	GE	EPA353.1
0	pH	4.16	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	51.2				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	5.49E-08±4.70E-09				1.27E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.18E-08±3.17E-09				1.51E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.32E-04±2.70E-06				1.06E-06	µCi/mL	GP	RADA-002

**WELL FSB105C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 12:58  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,300				50.0	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	5.75				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	9.01				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	79,500				2,500	µg/L	GE	EPA353.1
1	pH	3.43	J	Q		0.100	pH	GE	EPA9040B
1	pH	3.42	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	668	J	Q		1.00	µS/cm	GE	EPA9050A
2	Specific conductance	667	J	Q		1.00	µS/cm	GE	EPA9050A
2	Gross alpha	3.34E-07±1.05E-07				7.28E-08	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.76E-07±1.20E-07				1.37E-07	µCi/mL	GP	EPA900.0
2	Tritium	2.62E-03±9.11E-06				7.78E-07	µCi/mL	GP	RADA-002

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**WELL FSB105C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 12:58  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,000				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	174				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.44	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	6.86				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	13,400				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.14	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	138				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	29.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	7,290				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,470				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.127	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	32.2				5.00	µg/L	GE	EPA6010B
0	Potassium, total recoverable	947				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	55,300				100	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	64.9				5.00	µg/L	GE	EPA6010B

**WELL FSB105C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 12:58  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	19,300				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	180				5.00	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	4.55	J	I		5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	6.95				5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	13,500				100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	1.17	J	I		5.00	µg/L	GE	EPA6010B
2	Cobalt, total recoverable	140				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	30.4				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	JU	LQ	I	5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	7,400				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,510				10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.186	J	I		0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	32.8				5.00	µg/L	GE	EPA6010B
0	Potassium, total recoverable	973				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	55,900				100	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	65.3				5.00	µg/L	GE	EPA6010B

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**WELL FSB105DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 78.5 ft (23.93 m) below TOC  
 Water elevation: 207.1 ft (63.12 m) msl  
 pH: 4.1  
 Sp. conductance: 222 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 11:12  
 Water temperature: 19.3°C  
 Air temperature: 13.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	400				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0750	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.119	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	17,500				1,250	µg/L	GE	EPA353.1
0	pH	4.10	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	162				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	4.55E-08±5.64E-09				1.68E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.35E-08±3.67E-09				3.10E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.88E-04±4.61E-06				6.77E-07	µCi/mL	GP	RADA-002

**WELL FSB106C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 37.75 ft (11.51 m) below TOC  
 Water elevation: 197.35 ft (60.15 m) msl  
 pH: 4.9  
 Sp. conductance: 568 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 11:25  
 Water temperature: 21.2°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	3,220				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	2,380				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	3,610				50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	2,460				50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	126				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	103				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	135				5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.52	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.12	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.66	J	I		5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.35	J	K	I	0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	7.13				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	5.81				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	7.76				5.00	µg/L	GE	EPA6010B
2	Cadmium, total recoverable	6.16				1.00	µg/L	GE	EPA6020
0	Calcium, total recoverable	33,400	J	K	I	100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	35,400	J	K	I	100	µg/L	GE	EPA6010B
0	Calcium, total recoverable	30,400	J	K	I	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	49.8				5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	39.1				5.00	µg/L	GE	EPA6010B
1	Cobalt, total recoverable	54.9				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	8.97				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	5.76				5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	10.5				5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Iron, total recoverable	25.4	J	I		50.0	µg/L	GE	EPA6010B

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Well FSB106C collected on 05/24/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	5,750				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	4,970				20.0	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	5,950				20.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	943	J	K	I	10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	750	J	K	I	10.0	µg/L	GE	EPA6010B
2	Manganese, total recoverable	1,040	J	K	I	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	0.606				0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.366				0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.653				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	13.7				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	10.4				5.00	µg/L	GE	EPA6010B
0	Nickel, total recoverable	23.4				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	67,000				2,500	µg/L	GE	EPA353.1
0	pH	5.33	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.34	J	Q		0.100	pH	GE	EPA9040B
0	Potassium, total recoverable	962				100	µg/L	GE	EPA6010B
0	Potassium, total recoverable	904				100	µg/L	GE	EPA6010B
0	Potassium, total recoverable	971				100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	52,000				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	50,800				100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	52,000				100	µg/L	GE	EPA6010B
1	Specific conductance	447				1.00	µS/cm	GE	EPA9050A
1	Specific conductance	446				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<10.0				10.0	µg/L	GE	EPA6010B
0	Thallium, total recoverable	<4.57	JU		4	10.0	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	36.9				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	29.4				5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	41.7				5.00	µg/L	GE	EPA6010B
2	Gross alpha	1.58E-08±3.78E-09	J	L	I	1.67E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	1.84E-08±3.71E-09	J	L	I	1.63E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.21E-07±9.42E-09	J	K	I	1.81E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.68E-07±9.84E-09	J	K	I	2.22E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.05E-03±2.06E-05				3.17E-06	µCi/mL	GP	RADA-002

## WELL FSB107C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 61.76 ft (18.82 m) below TOC  
 Water elevation: 209.14 ft (63.75 m) msl  
 pH: 6.1  
 Sp. conductance: 131 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 13:40  
 Water temperature: 19.6°C  
 Air temperature: 15°C  
 Total alkalinity (as CaCO<sub>3</sub>): 33 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0750	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.172	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	4,560				150	µg/L	GE	EPA353.1
0	pH	7.16	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	98.5				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	6.11E-10±9.79E-10	U			2.12E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.94E-08±3.02E-09				3.73E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.17E-05±1.77E-06				6.84E-07	µCi/mL	GP	RADA-002

## WELL FSB107D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/01/01  
 Depth to water: 58.2 ft (17.74 m) below TOC  
 Water elevation: 212.8 ft (64.86 m) msl  
 pH: 3.6  
 Sp. conductance: 740 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 12:53  
 Water temperature: 22.2°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	27,600				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.858				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	12.0				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	7.96				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	80,500				2,500	µg/L	GE	EPA353.1
1	pH	3.69	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	596				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	7.92E-07±2.57E-08				2.55E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.13E-06±2.84E-08				3.72E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.83E-03±3.57E-05				4.19E-06	µCi/mL	GP	RADA-002

## WELL FSB108D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 82.15 ft (25.04 m) below TOC  
 Water elevation: 215.85 ft (65.79 m) msl  
 pH: 5.9  
 Sp. conductance: 28 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 14:40  
 Water temperature: 18.6°C  
 Air temperature: 14.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 48 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	50.0	J	I		50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.0340	JU		4	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.101	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	10.3				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	930				50.0	µg/L	GE	EPA353.1
0	pH	5.82	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	26.9				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.74E-09±1.38E-09	J	I		1.70E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.15E-09±1.71E-09	U			3.28E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.02E-05±7.18E-07				6.77E-07	µCi/mL	GP	RADA-002

## WELL FSB109D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 79.29 ft (24.17 m) below TOC  
 Water elevation: 213.81 ft (65.17 m) msl  
 pH: 5.9  
 Sp. conductance: 524 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 8:39  
 Water temperature: 21.7°C  
 Air temperature: 17.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0840	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	8.32				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	47,800				1,250	µg/L	GE	EPA353.1
0	pH	5.96	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	429				1.00	µS/cm	GE	EPA9050A
1	Gross alpha	8.19E-09±2.10E-09				2.20E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.09E-09±1.31E-09				1.86E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.09E-03±4.10E-05				4.64E-06	µCi/mL	GP	RADA-002



**WELL FSB110C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 38.24 ft (11.66 m) below TOC  
 Water elevation: 196.26 ft (59.82 m) msl  
 pH: 5.7  
 Sp. conductance: 708 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 90 gal

Time: 15:37  
 Water temperature: 19.8°C  
 Air temperature: 14.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 12 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.22				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.34				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	3.71	J	I		5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	78,000				2,500	µg/L	GE	EPA353.1
0	pH	6.13	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	502				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.14E-09±1.59E-09	U			2.44E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.18E-08±5.68E-09				3.13E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.83E-03±8.16E-06				6.84E-07	µCi/mL	GP	RADA-002

**WELL FSB110D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 35.75 ft (10.9 m) below TOC  
 Water elevation: 198.75 ft (60.58 m) msl  
 pH: 3.4  
 Sp. conductance: 600 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 9:08  
 Water temperature: 19.1°C  
 Air temperature: 16.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	20,300				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.910				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	9.84				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	56,000				2,500	µg/L	GE	EPA353.1
1	pH	3.51	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	512				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	4.36E-07±1.82E-08				1.99E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.95E-07±1.83E-08				3.48E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.03E-04±1.77E-05				2.81E-06	µCi/mL	GP	RADA-002

**WELL FSB111C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 65.37 ft (19.93 m) below TOC  
 Water elevation: 210.93 ft (64.29 m) msl  
 pH: 5.1  
 Sp. conductance: 662 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 81 gal

Time: 14:32  
 Water temperature: 19.8°C  
 Air temperature: 14.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.447				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.122	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	60,500				2,500	µg/L	GE	EPA353.1
0	pH	5.47	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	493				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.61E-09±2.42E-09	U			4.75E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.98E-09±2.33E-09	J	I		3.77E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.07E-03±8.67E-06				6.84E-07	µCi/mL	GP	RADA-002

**WELL FSB111D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 62 ft (18.9 m) below TOC  
 Water elevation: 214.6 ft (65.41 m) msl  
 pH: 4.6  
 Sp. conductance: 791 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 8:40  
 Water temperature: 21.6°C  
 Air temperature: 18.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	357				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.279				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0820	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	7.28				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	71,500				2,500	µg/L	GE	EPA353.1
0	pH	4.68	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	589				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.12E-08±5.71E-09				3.83E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.58E-08±5.80E-09				6.65E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.48E-03±4.84E-05				4.96E-06	µCi/mL	GP	RADA-002

**WELL FSB112A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 77.61 ft (23.66 m) below TOC  
 Water elevation: 151.49 ft (46.17 m) msl  
 pH: 7.1  
 Sp. conductance: 162 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 9:46  
 Water temperature: 19.3°C  
 Air temperature: 18°C  
 Total alkalinity (as CaCO<sub>3</sub>): 50 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,140				100	µg/L	GE	EPA353.1
0	pH	7.67	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	126				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.48E-09±8.21E-10	J	I		9.39E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.55E-08±1.78E-09				1.50E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.29E-05±1.82E-06				9.34E-07	µCi/mL	GP	RADA-002

**WELL FSB112C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 33 ft (10.06 m) below TOC  
 Water elevation: 196.1 ft (59.77 m) msl  
 pH: 4.6  
 Sp. conductance: 1,665 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 93 gal

Time: 14:37  
 Water temperature: 26.1°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	26,500				50.0	µg/L	GE	EPA6010B
2	Beryllium, total recoverable	10.3				0.200	µg/L	GE	EPA6020
2	Cadmium, total recoverable	41.9				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	226,000				5,000	µg/L	GE	EPA353.1
0	pH	4.49	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,070				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.46E-07±2.07E-08				7.06E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.04E-06±5.37E-08				1.32E-08	µCi/mL	GP	EPA900.0
2	Tritium	6.52E-03±1.25E-09				7.12E-06	µCi/mL	GP	RADA-002



**WELL FSB112D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 31 ft (9.45 m) below TOC  
 Water elevation: 198.6 ft (60.53 m) msl  
 pH: 4.5  
 Sp. conductance: 50 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 10:43  
 Water temperature: 17.7°C  
 Air temperature: 16.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1.070				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.124	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0930	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3.030				150	µg/L	GE	EPA353.1
0	pH	4.19	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	39.6				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.98E-08±2.89E-09				1.29E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.18E-07±4.30E-09				1.50E-09	µCi/mL	GP	EPA900.0
0	Tritium	5.71E-06±7.51E-07				9.78E-07	µCi/mL	GP	RADA-002

**WELL FSB113A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 81 ft (24.69 m) below TOC  
 Water elevation: 142.2 ft (43.34 m) msl  
 pH: 11  
 Sp. conductance: 2,468 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:42  
 Water temperature: 21.8°C  
 Air temperature: 37.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 481 mg/L  
 Phenolphthalein alkalinity: 479 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	1.450				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
1	Nitrate-nitrite as nitrogen	7.700				250	µg/L	GE	EPA353.1
2	pH	11.3	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,680				1.00	µS/cm	GE	EPA9050A
1	Gross alpha	7.74E-09±2.75E-09	J	I		2.55E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.14E-09±2.27E-09	J	I		4.28E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.66E-04±3.36E-06				1.24E-06	µCi/mL	GP	RADA-002

**WELL FSB113C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 30.3 ft (9.24 m) below TOC  
 Water elevation: 192.6 ft (58.71 m) msl  
 pH: 7.4  
 Sp. conductance: 141 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 12:27  
 Water temperature: 25.3°C  
 Air temperature: 37.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 37 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	144				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.611	J	K	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	5.13				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	4.740				150	µg/L	GE	EPA353.1
0	pH	6.97	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	114				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.61E-09±1.11E-09	U			1.66E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.59E-09±9.67E-10	J	I		1.73E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.26E-05±1.70E-06				9.39E-07	µCi/mL	GP	RADA-002

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**WELL FSB113D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 30.45 ft (9.28 m) below TOC  
 Water elevation: 192.05 ft (58.54 m) msl  
 pH: 5.1  
 Sp. conductance: 25 µS/cm  
 Turbidity: 12 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 13:26  
 Water temperature: 28.2°C  
 Air temperature: 37.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 32 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	274				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.0400	JU		4	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	4.81	J	I		5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	480				50.0	µg/L	GE	EPA353.1
0	pH	4.97	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	18.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.26E-09±7.82E-10	U			1.32E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.65E-11±8.71E-10	U			2.08E-09	µCi/mL	GP	EPA900.0
0	Tritium	8.76E-06±6.94E-07				6.96E-07	µCi/mL	GP	RADA-002

**WELL FSB114A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 97.77 ft (29.8 m) below TOC  
 Water elevation: 154.23 ft (47.01 m) msl  
 pH: 7.7  
 Sp. conductance: 191 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 94 gal

Time: 16:07  
 Water temperature: 19.8°C  
 Air temperature: 14.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 69 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
2	Aluminum, total recoverable	120	J	I		146	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	0.580	J	I		1.60	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<0.0770	U	V		1.00	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	1,820				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,900			X	100	µg/L	WA	EPA353.2
0	pH	7.84	J	Q		0.100	pH	GE	EPA9040B
1	pH	8.00	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	146				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	175				8.90	µS/cm	WA	EPA9050A
0	Gross alpha	2.17E-10±1.42E-09	U			3.63E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	8.91E-09±5.05E-09	U			1.65E-08	µCi/mL	ML	EPA900.0
0	Nonvolatile beta	2.07E-09±1.66E-09	U			3.40E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.50E-09±3.43E-09	U			1.54E-08	µCi/mL	ML	EPA900.0
0	Tritium	9.27E-07±4.34E-07	J	I		6.87E-07	µCi/mL	GP	RADA-002
0	Tritium	8.96E-07±3.83E-07	J	I		5.83E-07	µCi/mL	ML	RADA-002

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**WELL FSB114A Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 97.77 ft (29.8 m) below TOC  
 Water elevation: 154.23 ft (47.01 m) msl  
 pH: 7.7  
 Sp. conductance: 191 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 94 gal

Time: 16:07  
 Water temperature: 19.8°C  
 Air temperature: 14.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 69 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U		50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Cadmium, total recoverable	<0.0540	U	V	1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Nitrate-nitrite as nitrogen	1.850			50.0	µg/L	GE	EPA353.1	
0	pH	7.88	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	143			1.00	µS/cm	GE	EPA9050A	
0	Gross alpha	9.53E-10±1.27E-09	U		2.63E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	4.79E-11±1.64E-09	U		3.92E-09	µCi/mL	GP	EPA900.0	
0	Tritium	9.07E-07±4.41E-07	J	I	7.00E-07	µCi/mL	GP	RADA-002	

**WELL FSB114C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 40.55 ft (12.36 m) below TOC  
 Water elevation: 211.65 ft (64.51 m) msl  
 pH: 5.8  
 Sp. conductance: 50 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 105 gal

Time: 10:59  
 Water temperature: 20.9°C  
 Air temperature: 32.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 51 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U		50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	0.295			0.200	µg/L	GE	EPA6020	
0	Cadmium, total recoverable	<0.149	JU	4	1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Nitrate-nitrite as nitrogen	1.900			50.0	µg/L	GE	EPA353.1	
0	Nitrate-nitrite as nitrogen	1.930			50.0	µg/L	GE	EPA353.1	
0	pH	5.46	J	Q	0.100	pH	GE	EPA9040B	
0	pH	5.46	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	36.5			1.00	µS/cm	GE	EPA9050A	
0	Specific conductance	36.6			1.00	µS/cm	GE	EPA9050A	
0	Gross alpha	1.33E-09±1.31E-09	U		2.29E-09	µCi/mL	GP	EPA900.0	
0	Gross alpha	8.72E-10±1.76E-09	U		4.07E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	2.03E-09±2.35E-09	U		5.01E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	1.87E-09±2.79E-09	U		6.21E-09	µCi/mL	GP	EPA900.0	
0	Tritium	3.26E-06±6.07E-07			8.62E-07	µCi/mL	GP	RADA-002	

**WELL FSB114D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 36.81 ft (11.22 m) below TOC  
 Water elevation: 215.39 ft (65.65 m) msl  
 pH: 5.1  
 Sp. conductance: 25 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 38 gal

Time: 10:33  
 Water temperature: 21°C  
 Air temperature: 29.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	54.5			50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	<0.0410	JU	4	0.200	µg/L	GE	EPA6020	
0	Cadmium, total recoverable	<1.00	U		1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	3.46	J	I	5.00	µg/L	GE	EPA6010B	
0	Nitrate-nitrite as nitrogen	470			50.0	µg/L	GE	EPA353.1	
0	pH	4.91	J	Q	0.100	pH	GE	EPA9040B	

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Well FSB114D collected on 05/03/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Specific conductance	43.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.21E-09±1.37E-09	U			2.62E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.51E-09±2.02E-09	U			4.21E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.25E-06±6.05E-07				8.60E-07	µCi/mL	GP	RADA-002

**WELL FSB117D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 31.55 ft (9.62 m) below TOC  
 Water elevation: 199.15 ft (60.7 m) msl  
 pH: 4.1  
 Sp. conductance: 220 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 11:20  
 Water temperature: 21.5°C  
 Air temperature: 29.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	4.660			50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	0.631			0.200	µg/L	GE	EPA6020	
1	Cadmium, total recoverable	2.79			1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
2	Nitrate-nitrite as nitrogen	19.800			1.250	µg/L	GE	EPA353.1	
0	pH	4.05	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	215			1.00	µS/cm	GE	EPA9050A	
2	Gross alpha	1.41E-07±1.06E-08	J	K	I	2.55E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	1.49E-07±1.10E-08	J	K	I	2.20E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	3.60E-07±1.32E-08			4.43E-09	µCi/mL	GP	EPA900.0	
2	Nonvolatile beta	3.84E-07±1.34E-08			5.09E-09	µCi/mL	GP	EPA900.0	
2	Tritium	7.02E-04±1.38E-05			2.46E-06	µCi/mL	GP	RADA-002	

**WELL FSB118D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 34.11 ft (10.4 m) below TOC  
 Water elevation: 209.19 ft (63.76 m) msl  
 pH: 4.6  
 Sp. conductance: 132 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 11:15  
 Water temperature: 24.1°C  
 Air temperature: 25.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	210			50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	0.162	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U		1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	4.04	J	I	5.00	µg/L	GE	EPA6010B	
2	Nitrate-nitrite as nitrogen	12.400			250	µg/L	GE	EPA353.1	
0	pH	4.62	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	190			1.00	µS/cm	GE	EPA9050A	
1	Gross alpha	1.05E-08±1.91E-09			1.08E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	8.13E-09±1.42E-09			1.87E-09	µCi/mL	GP	EPA900.0	
2	Tritium	1.33E-03±2.60E-05			3.57E-06	µCi/mL	GP	RADA-002	

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**WELL FSB119D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 50.07 ft (15.26 m) below TOC  
 Water elevation: 204.03 ft (62.19 m) msl  
 pH: 3.5  
 Sp. conductance: 767 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 11:30  
 Water temperature: 20.1°C  
 Air temperature: 23.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	23,900			50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.19			0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	7.65			1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	80,500			2,500		µg/L	GE	EPA353.1
1	pH	3.59	J	Q	0.100		pH	GE	EPA9040B
2	Specific conductance	654			1.00		µS/cm	GE	EPA9050A
2	Specific conductance	654			1.00		µS/cm	GE	EPA9050A
2	Gross alpha	6.74E-07±2.38E-08			2.43E-09		µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.23E-06±2.15E-08			4.14E-09		µCi/mL	GP	EPA900.0
2	Tritium	3.41E-03±6.59E-05			5.86E-06		µCi/mL	GP	RADA-002

**WELL FSB120A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 132.61 ft (40.42 m) below TOC  
 Water elevation: 147.49 ft (44.96 m) msl  
 pH: 11.6  
 Sp. conductance: 2,940 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 12:00  
 Water temperature: 21.5°C  
 Air temperature: 34.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 521 mg/L  
 Phenolphthalein alkalinity: 510 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	787			50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U		0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.130	U	V	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	23,400			500		µg/L	GE	EPA353.1
0	pH	6.98	J	Q	0.100		pH	GE	EPA9040B
2	Specific conductance	2,460			1.00		µS/cm	GE	EPA9050A
0	Gross alpha	2.16E-09±2.37E-09	U		4.43E-09		µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.80E-08±6.47E-09	J	L	6.54E-09		µCi/mL	GP	EPA900.0
2	Tritium	4.74E-04±4.18E-06			7.01E-07		µCi/mL	GP	RADA-002
2	Tritium	4.88E-04±4.34E-06			7.33E-07		µCi/mL	GP	RADA-002

**WELL FSB120C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 78.49 ft (23.92 m) below TOC  
 Water elevation: 201.21 ft (61.33 m) msl  
 pH: 6.7  
 Sp. conductance: 306 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 94 gal

Time: 11:49  
 Water temperature: 21.5°C  
 Air temperature: 34.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	102			50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.16			0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.471	U	V	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	32,800			1,250		µg/L	GE	EPA353.1
0	pH	6.35	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	233			1.00		µS/cm	GE	EPA9050A
1	Gross alpha	1.30E-08±4.89E-09	J	I	6.20E-09		µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.46E-08±6.39E-09	J	L	6.65E-09		µCi/mL	GP	EPA900.0
2	Tritium	7.59E-04±5.28E-06			6.75E-07		µCi/mL	GP	RADA-002

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**WELL FSB120D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 75.65 ft (23.06 m) below TOC  
 Water elevation: 204.85 ft (62.44 m) msl  
 pH: 7.4  
 Sp. conductance: 85 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 10 gal  
 The well went dry during purging.

Time: 14:55  
 Water temperature: 28.3°C  
 Air temperature: 30.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 32 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	436			50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U		0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0680	U	V	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	4.08	J	I	5.00		µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	380			50.0		µg/L	GE	EPA353.1
0	pH	6.69	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	61.8			1.00		µS/cm	GE	EPA9050A
0	Gross alpha	7.14E-10±2.40E-09	U		5.80E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.24E-09±3.16E-09	JU	L	7.01E-09		µCi/mL	GP	EPA900.0
0	Tritium	6.78E-06±6.37E-07			6.85E-07		µCi/mL	GP	RADA-002

**WELL FSB121C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 57.85 ft (17.63 m) below TOC  
 Water elevation: 198.65 ft (60.55 m) msl  
 pH: 7  
 Sp. conductance: 93 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 68 gal

Time: 14:51  
 Water temperature: 17.5°C  
 Air temperature: 15.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 37 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U		50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.166	J	I	0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0690	U	V	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,480			150		µg/L	GE	EPA353.1
0	pH	6.99	J	Q	0.100		pH	GE	EPA9040B
0	pH	6.98	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	69.0			1.00		µS/cm	GE	EPA9050A
0	Specific conductance	68.8			1.00		µS/cm	GE	EPA9050A
0	Gross alpha	1.62E-09±1.21E-09	U		1.90E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.03E-09±2.14E-09			3.20E-09		µCi/mL	GP	EPA900.0
2	Tritium	1.58E-04±2.43E-06			6.86E-07		µCi/mL	GP	RADA-002

**WELL FSB121DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/01/01  
 Depth to water: 54.19 ft (16.52 m) below TOC  
 Water elevation: 201.31 ft (61.36 m) msl  
 pH: 5.6  
 Sp. conductance: 35 µS/cm  
 Turbidity: 46 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 14:40  
 Water temperature: 25.7°C  
 Air temperature: 32.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	2,020			50.0		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.149	J	I	0.200		µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0980	JU	4	1.00		µg/L	GE	EPA6020
0	Lead, total recoverable	5.90			5.00		µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	2,260			50.0		µg/L	GE	EPA353.1
0	pH	5.91	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	27.0			1.00		µS/cm	GE	EPA9050A
0	Specific conductance	26.9			1.00		µS/cm	GE	EPA9050A
0	Gross alpha	2.59E-09±1.11E-09	J	I	1.03E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.18E-09±1.68E-09			2.27E-09		µCi/mL	GP	EPA900.0
0	Tritium	9.40E-06±8.00E-07			9.07E-07		µCi/mL	GP	RADA-002

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**WELL FSB122C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 23.16 ft (7.06 m) below TOC  
 Water elevation: 194.84 ft (59.39 m) msl  
 pH: 4.5  
 Sp. conductance: 506 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 52 gal

Time: 15:17  
 Water temperature: 23.1°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	759				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0840	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.147	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	59,000				1,250	µg/L	GE	EPA353.1
0	pH	4.43	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	401				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	2.75E-08±3.80E-09				1.50E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.88E-08±3.71E-09				1.74E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.51E-03±2.94E-05				3.79E-06	µCi/mL	GP	RADA-002

**WELL FSB122D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 19.69 ft (6 m) below TOC  
 Water elevation: 197.91 ft (60.32 m) msl  
 pH: 4.8  
 Sp. conductance: 255 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 22 gal

Time: 15:36  
 Water temperature: 23.1°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	454				50.0	µg/L	GE	EPA6010B
1	Beryllium, total recoverable	3.57	J	K	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	1.23				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	5.81				5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	23,000				1,250	µg/L	GE	EPA353.1
0	pH	4.68	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.65	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	184				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.78E-08±3.56E-09				2.42E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.44E-08±2.84E-09				1.71E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.42E-04±1.46E-05				2.59E-06	µCi/mL	GP	RADA-002

**WELL FSB123C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 29.74 ft (9.06 m) below TOC  
 Water elevation: 208.36 ft (63.51 m) msl  
 pH: 5.8  
 Sp. conductance: 61 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 80 gal

Time: 12:14  
 Water temperature: 21°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 28 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.156	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	2,740				50.0	µg/L	GE	EPA353.1
0	pH	6.23	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	50.3				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	50.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	6.78E-10±5.55E-10	U			9.16E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.71E-10±7.29E-10	U			1.66E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.90E-06±6.54E-07				9.58E-07	µCi/mL	GP	RADA-002

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**WELL FSB123D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 28.92 ft (8.81 m) below TOC  
 Water elevation: 209.18 ft (63.76 m) msl  
 pH: 5  
 Sp. conductance: 37 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 11:57  
 Water temperature: 19.4°C  
 Air temperature: 27.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1,680				50.0	µg/L	GE	EPA353.1
0	pH	5.31	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	36.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.85E-09±7.78E-10	J	I		7.26E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.97E-09±8.54E-10	J	I		1.52E-09	µCi/mL	GP	EPA900.0
0	Tritium	6.02E-06±7.12E-07				8.99E-07	µCi/mL	GP	RADA-002
0	Tritium	6.71E-06±7.90E-07				9.97E-07	µCi/mL	GP	RADA-002

**WELL FSL 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Depth to water: 90 ft (27.43 m) below TOC  
 Water elevation: 220.8 ft (67.3 m) msl  
 pH: 4.6  
 Sp. conductance: 53 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 9:39  
 Water temperature: 22.9°C  
 Air temperature: 21.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	298				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	1.16				0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	1.23				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.178	JU			1.00	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.167	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	23.2				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3,850				250	µg/L	GE	EPA353.1
0	pH	4.71	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.74	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	48.1				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	6.60E-09±2.02E-09	J	K	I	1.51E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.31E-09±1.70E-09	J	I		3.05E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.91E-06±7.64E-07				9.11E-07	µCi/mL	GP	RADA-002

**WELL FSL 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 84.34 ft (25.71 m) below TOC  
 Water elevation: 221.46 ft (67.5 m) msl  
 pH: 5.5  
 Sp. conductance: 54 µS/cm  
 Turbidity: 12 NTU  
 Water evacuated from the well prior to sampling: 3 gal  
 The well went dry during purging.

Time: 9:05  
 Water temperature: 23.1°C  
 Air temperature: 18.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 83 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	155				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.193	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.216	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	14.2				5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	1,540				50.0	µg/L	GE	EPA353.1
0	pH	5.42	J	Q		0.100	pH	GE	EPA9040B

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Well FSL 2D collected on 05/03/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Specific conductance	51.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.10E-09±1.66E-09	U			2.59E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.24E-09±2.19E-09	J	I		3.96E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.35E-06±7.18E-07				8.57E-07	µCi/mL	GP	RADA-002

**WELL FSL 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 83.2 ft (25.36 m) below TOC  
 Water elevation: 218.8 ft (66.69 m) msl  
 pH: 6.2  
 Sp. conductance: 70 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 11:17  
 Water temperature: 26.9°C  
 Air temperature: 25.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 19 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	990				50.0	µg/L	GE	EPA353.1
0	pH	6.15	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	52.4				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	1.23E-09±8.52E-10	U			1.33E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.63E-09±1.33E-09	J	I		2.31E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.24E-05±1.12E-06				9.57E-07	µCi/mL	GP	RADA-002

**WELL FSL 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 47.58 ft (14.5 m) below TOC  
 Water elevation: 244.22 ft (74.44 m) msl  
 pH: 5  
 Sp. conductance: 115 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 13:42  
 Water temperature: 25.2°C  
 Air temperature: 31.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	378				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.574				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0750	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	10,900				250	µg/L	GE	EPA353.1
0	pH	4.90	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	88.0				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.27E-08±3.30E-09				1.18E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	4.03E-07±9.77E-09				2.07E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.39E-04±2.83E-06				1.08E-06	µCi/mL	GP	RADA-002

**WELL FSL 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 69.55 ft (21.2 m) below TOC  
 Water elevation: 216.65 ft (66.04 m) msl  
 pH: 4.9  
 Sp. conductance: 967 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 12:34  
 Water temperature: 26.7°C  
 Air temperature: 24.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	150				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.104	J	I		0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	0.495	J	I		1.00	µg/L	GE	EPA6020

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Well FSL 6D collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	112,000				2,500	µg/L	GE	EPA353.1
0	pH	4.73	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	445				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	4.86E-09±2.82E-09	J	I	I	2.95E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.00E-08±7.04E-09				4.82E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.06E-03±4.00E-05			5	3.43E-06	µCi/mL	GP	RADA-002

**WELL FSL 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 71.6 ft (21.82 m) below TOC  
 Water elevation: 216 ft (65.84 m) msl  
 pH: 4.7  
 Sp. conductance: 348 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 12:31  
 Water temperature: 18.6°C  
 Air temperature: 16.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	791				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.368				0.200	µg/L	GE	EPA6020
1	Cadmium, total recoverable	3.46				1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	41,500				1,250	µg/L	GE	EPA353.1
0	pH	4.51	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	246				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	4.66E-08±6.74E-09				3.24E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	3.04E-07±1.21E-08				5.09E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.23E-04±2.93E-06				6.95E-07	µCi/mL	GP	RADA-002

**WELL FSL 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 74.73 ft (22.78 m) below TOC  
 Water elevation: 216.07 ft (65.86 m) msl  
 pH: 5.1  
 Sp. conductance: 73 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 12:01  
 Water temperature: 21.5°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.0760	J	IK	C	0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
1	Nitrate-nitrite as nitrogen	5,700				150	µg/L	GE	EPA353.1
0	pH	4.86	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	66.8				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	5.60E-09±1.46E-09				1.44E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.77E-09±1.38E-09				1.65E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.28E-05±9.08E-07				9.40E-07	µCi/mL	GP	RADA-002

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**WELL FSL 9D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 70.45 ft (21.47 m) below TOC  
 Water elevation: 215.45 ft (65.67 m) msl  
 pH: 4.3  
 Sp. conductance: 226 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 11:34  
 Water temperature: 20.3°C  
 Air temperature: 14.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	2.520				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.347				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.235	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
2	Nitrate-nitrite as nitrogen	18.900				500	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	19.200				500	µg/L	GE	EPA353.1
0	pH	4.12	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.13	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	140				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	139				1.00	µS/cm	GE	EPA9050A
2	Gross alpha	1.54E-07±1.17E-08				2.66E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.12E-07±1.01E-08				4.01E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.93E-04±4.31E-06				6.91E-07	µCi/mL	GP	RADA-002

**WELL FSL 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 57.27 ft (17.46 m) below TOC  
 Water elevation: 209.53 ft (63.87 m) msl  
 pH: 4.9  
 Sp. conductance: 46 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 12:31  
 Water temperature: 21.9°C  
 Air temperature: 27.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	144				50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.831				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0600	JU		4	1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	3.090				150	µg/L	GE	EPA353.1
0	pH	4.78	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	35.3				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.97E-09±1.13E-09	J	I		1.01E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.07E-08±1.82E-09				2.16E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.97E-06±5.93E-07	J	I		9.07E-07	µCi/mL	GP	RADA-002

**WELL FSL 11C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 90.65 ft (27.63 m) below TOC  
 Water elevation: 210.05 ft (64.02 m) msl  
 pH: 5.6  
 Sp. conductance: 36 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 14:39  
 Water temperature: 23°C  
 Air temperature: 29.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	0.352				0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	900				50.0	µg/L	GE	EPA353.1
0	pH	5.68	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.69	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	28.8				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	2.91E-09±1.29E-09	J	I		1.44E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	1.83E-09±1.00E-09	J	I		1.39E-09	µCi/mL	GP	EPA900.0

Well FSL 11C collected on 04/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nonvolatile beta	1.07E-07±5.11E-09				2.52E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.01E-07±4.93E-09				2.40E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.04E-06±6.01E-07	J	I		9.17E-07	µCi/mL	GP	RADA-002

**WELL FSS 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 45.42 ft (13.84 m) below TOC  
 Water elevation: 220.58 ft (67.23 m) msl  
 pH: 5.8  
 Sp. conductance: 73 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 8 gal  
 The well went dry during purging.

Time: 15:08  
 Water temperature: 27.5°C  
 Air temperature: 29.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 13 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<57.6	U	V		146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	527				146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	4.70				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.40				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	2.70	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	6.60	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	134				74.0	µg/L	WA	EPA6010B
2	Iron, total recoverable	634				74.0	µg/L	WA	EPA6010B
1	Lead, dissolved	39.4	J	I		47.0	µg/L	WA	EPA6010B
1	Lead, total recoverable	45.7	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	1.30	J	I		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<1.10	JU		4	5.00	µg/L	WA	EPA6010B

**WELL FSS 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 41.43 ft (12.63 m) below TOC  
 Water elevation: 220.17 ft (67.11 m) msl  
 pH: 5.2  
 Sp. conductance: 48 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 10 gal  
 The well went dry during purging.

Time: 13:53  
 Water temperature: 29°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<142	U			146	µg/L	WA	EPA6010B
2	Aluminum, total recoverable	601				146	µg/L	WA	EPA6010B
0	Arsenic, dissolved	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, dissolved	18.2				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	20.8				1.80	µg/L	WA	EPA6010B
0	Cadmium, dissolved	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, dissolved	1.80	J	I		7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	3.00	J	I		7.00	µg/L	WA	EPA6010B
0	Iron, dissolved	73.0	J	I		74.0	µg/L	WA	EPA6010B
2	Iron, total recoverable	447				74.0	µg/L	WA	EPA6010B
1	Lead, dissolved	28.4	J	I		47.0	µg/L	WA	EPA6010B
1	Lead, total recoverable	29.1	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, dissolved	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Selenium, dissolved	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, dissolved	0.780	J	I		5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.720	JU		4	5.00	µg/L	WA	EPA6010B



## WELL FSS 3D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 40.05 ft (12.21 m) below TOC  
 Water elevation: 218.15 ft (66.49 m) msl  
 pH: 4.9  
 Sp. conductance: 55 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 9:18  
 Water temperature: 26°C  
 Air temperature: 24.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<127	U		146	µg/L	WA	EPA6010B	
0	Aluminum, total recoverable	<122	U		146	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	13.3			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	13.4			1.80	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Chromium, dissolved	0.870	J	I	7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	2.10	J	I	7.00	µg/L	WA	EPA6010B	
2	Iron, dissolved	335			74.0	µg/L	WA	EPA6010B	
2	Iron, total recoverable	346			74.0	µg/L	WA	EPA6010B	
2	Lead, dissolved	57.4			47.0	µg/L	WA	EPA6010B	
2	Lead, total recoverable	56.8			47.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<1.30	JU		4	5.00	µg/L	WA	EPA6010B

## WELL FSS 4D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/01/01  
 Depth to water: 75.33 ft (22.96 m) below TOC  
 Water elevation: 216.47 ft (65.98 m) msl  
 pH: 4.9  
 Sp. conductance: 45 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 11:47  
 Water temperature: 28.7°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, dissolved	<86.5	U	V	146	µg/L	WA	EPA6010B	
0	Aluminum, total recoverable	<99.4	U		146	µg/L	WA	EPA6010B	
0	Arsenic, dissolved	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, dissolved	7.90			1.80	µg/L	WA	EPA6010B	
0	Barium, total recoverable	8.30			1.80	µg/L	WA	EPA6010B	
0	Cadmium, dissolved	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Chromium, dissolved	2.70	J	I	7.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	4.60	J	I	7.00	µg/L	WA	EPA6010B	
0	Iron, dissolved	61.7	J	I	74.0	µg/L	WA	EPA6010B	
0	Iron, total recoverable	97.6			74.0	µg/L	WA	EPA6010B	
0	Lead, dissolved	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Mercury, dissolved	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Selenium, dissolved	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, dissolved	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	

## WELL HEX500TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 128 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 8:40  
 Water temperature: 18.1°C  
 Air temperature: 19.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Aluminum, total recoverable	585			15.0	µg/L	GE	EPA6020	
0	Antimony, total recoverable	<2.00	U		2.00	µg/L	GE	EPA6020	
0	Arsenic, total recoverable	<2.00	U	V	3.00	µg/L	GE	EPA6020	
0	Barium, total recoverable	21.6			2.00	µg/L	GE	EPA6020	
0	Benzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	0.334			0.200	µg/L	GE	EPA6020	
0	Bis(2-ethylhexyl) phthalate	0.261	J	I	0.971	µg/L	GE	EPA8270C	
0	Bromodichloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<0.330	JU		4	1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<1.94	U	V	3.00	µg/L	GE	EPA6020	
0	Cobalt, total recoverable	3.39			1.00	µg/L	GE	EPA6020	
0	Copper, total recoverable	1.12			1.00	µg/L	GE	EPA6020	
0	Cyanide	<5.00	JU	Q	5.00	µg/L	GE	EPA9012A	
0	Dibromochloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	<15.6	U	V	25.0	µg/L	GE	EPA6020	
0	Lead, total recoverable	<2.00	U		2.00	µg/L	GE	EPA6020	
2	Mercury, total recoverable	2.13			0.200	µg/L	GE	EPA7470A	
0	Nickel, total recoverable	4.05			2.00	µg/L	GE	EPA6020	
0	Selenium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6020	
0	Silver, total recoverable	<1.00	U		1.00	µg/L	GE	EPA6020	
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	0.613			0.500	µg/L	GE	EPA6020	
0	Tin, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6020	
0	Toluene	0.586	J	IL	OX	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.978	J	IKL	COX	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<2.58	U	V	10.0	µg/L	GE	EPA6020	
0	Zinc, total recoverable	113			10.0	µg/L	GE	EPA6020	
0	Actinium-228	1.86E-09±8.22E-09	U		1.09E-08	µCi/mL	GP	RADA-013	
0	Americium-241	3.53E-10±5.02E-10	U		5.30E-10	µCi/mL	GP	RADA-011	
0	Antimony-125	1.07E-09±4.15E-09	U		7.30E-09	µCi/mL	GP	RADA-013	
0	Bismuth-212	1.94E-09±1.15E-08	U		1.98E-08	µCi/mL	GP	RADA-013	
0	Bismuth-214	8.71E-08±1.28E-08	U		4.59E-09	µCi/mL	GP	RADA-013	
0	Carbon-14	5.42E-08±2.92E-08	J	I	4.73E-08	µCi/mL	GP	RADA-003	
0	Cesium-134	2.55E-10±1.52E-09	U		2.25E-09	µCi/mL	GP	RADA-013	
0	Cesium-137	2.41E-09±1.61E-09	U		2.43E-09	µCi/mL	GP	RADA-013	
0	Cobalt-60	3.66E-09±3.05E-09	J	I	2.60E-09	µCi/mL	GP	RADA-013	
0	Curium-242	1.89E-10±3.80E-10	U		5.68E-10	µCi/mL	GP	RADA-011	
0	Curium-243/244	0.00E+00±2.00E-09	U		5.31E-10	µCi/mL	GP	RADA-011	
0	Curium-245/246	2.05E-10±4.11E-10	U		6.15E-10	µCi/mL	GP	RADA-011	
0	Europium-152	1.99E-09±4.59E-09	U		8.17E-09	µCi/mL	GP	RADA-013	
0	Europium-154	2.73E-10±4.71E-09	U		7.15E-09	µCi/mL	GP	RADA-013	
0	Europium-155	5.02E-09±6.05E-09	U		1.06E-08	µCi/mL	GP	RADA-013	
2	Iodine-129	8.37E-09±2.84E-09			1.96E-09	µCi/mL	GP	RADA-006	



Well HEX500TK collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead-212	9.54E-10±3.60E-09	U			4.88E-09	µCi/mL	GP	RADA-013
0	Nickel-63	8.89E-09±1.98E-08	U			4.83E-08	µCi/mL	GP	RADA-022
0	Nickel-63	4.95E-09±1.91E-08	U			4.65E-08	µCi/mL	GP	RADA-022
0	Plutonium-238	4.13E-09±3.07E-09	U			4.90E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.72E-10±6.97E-10	U			2.05E-09	µCi/mL	GP	RADA-011
0	Potassium-40	3.40E-08±1.77E-08	U			3.53E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.11E-09±1.90E-09	U			3.08E-09	µCi/mL	GP	RADA-013
1	Radium-226	3.23E-09±6.51E-10	U			4.34E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.10E-09±7.96E-10	J	I		1.43E-09	µCi/mL	GP	RADA-009
2	Strontium-89/90	1.80E-07±5.14E-09				1.22E-09	µCi/mL	GP	RADA-004
2	Strontium-89/90	1.91E-07±5.70E-09				1.49E-09	µCi/mL	GP	RADA-004
0	Technetium-99	3.73E-08±1.12E-08	J	I		1.99E-08	µCi/mL	GP	RADA-005
0	Thallium-208	7.21E-10±2.56E-09	U			2.50E-09	µCi/mL	GP	RADA-013
0	Thorium-228	3.10E-10±1.38E-09	U			3.26E-09	µCi/mL	GP	RADA-012
0	Thorium-230	1.43E-10±3.87E-10	U			9.90E-10	µCi/mL	GP	RADA-012
0	Thorium-232	1.43E-10±3.87E-10	U			9.90E-10	µCi/mL	GP	RADA-012
2	Tritium	2.37E-03±4.63E-05			5	3.75E-06	µCi/mL	GP	RADA-002
0	Uranium-233/234	4.72E-10±6.01E-10	U			9.02E-10	µCi/mL	GP	RADA-011
0	Uranium-235	-8.23E-11±1.17E-10	U			1.07E-09	µCi/mL	GP	RADA-011
0	Uranium-238	2.19E-10±5.05E-10	U			1.19E-09	µCi/mL	GP	RADA-011
0	Zinc-65	1.03E-09±3.56E-09	U			5.65E-09	µCi/mL	GP	RADA-013

## WELL HIN600TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 136 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 7:20  
 Water temperature: 19°C  
 Air temperature: 14°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	9.28	J	I		15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<2.00	U	V		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	<0.382	U	V		2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	0.132	J	I		0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromofom	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<2.82	U	V		3.00	µg/L	GE	EPA6020
0	Cobalt, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	<25.0	U			25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.15				0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	<0.0810	JU		4	2.00	µg/L	GE	EPA6020
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well HIN600TK collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thallium, total recoverable	<0.108	JU		4	0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Toluene	0.296	J	I		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.645	J	IK	C	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<2.45	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6020
0	Actinium-228	4.62E-09±1.15E-08	U			1.09E-08	µCi/mL	GP	RADA-013
0	Americium-241	1.71E-10±4.65E-10	U			1.19E-09	µCi/mL	GP	RADA-011
0	Americium-241	0.00E+00±2.00E-09	U			5.75E-10	µCi/mL	GP	RADA-011
0	Antimony-125	1.77E-09±3.93E-09	U			7.16E-09	µCi/mL	GP	RADA-013
0	Carbon-14	3.70E-08±2.88E-08	U			4.76E-08	µCi/mL	GP	RADA-003
0	Cerium-144	-5.06E-10±1.00E-08	U			1.71E-08	µCi/mL	GP	RADA-013
0	Cesium-134	-5.63E-10±2.19E-09	U			2.33E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.42E-10±1.42E-09	U			2.49E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	-6.26E-10±1.28E-09	U			2.16E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.59E-11±1.40E-09	U			2.60E-09	µCi/mL	GP	RADA-013
0	Curium-242	-5.81E-11±1.16E-10	U			1.28E-09	µCi/mL	GP	RADA-011
0	Curium-242	-4.93E-11±9.88E-11	U			1.08E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	0.00E+00±2.00E-09	U			6.78E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	-4.60E-11±9.23E-11	U			1.01E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	0.00E+00±2.00E-09	U			7.86E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	4.45E-10±6.32E-10	U			6.67E-10	µCi/mL	GP	RADA-011
0	Europium-152	4.47E-09±5.60E-09	U			7.72E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.47E-09±4.16E-09	U			7.11E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.01E-09±5.59E-09	U			9.81E-09	µCi/mL	GP	RADA-013
2	Iodine-129	3.21E-09±1.76E-09	R	4		2.94E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.11E-09±4.73E-09	U			4.47E-09	µCi/mL	GP	RADA-013
0	Manganese-54	-3.56E-11±1.59E-09	U			2.43E-09	µCi/mL	GP	RADA-013
0	Nickel-63	-2.63E-08±1.79E-08	U			4.37E-08	µCi/mL	GP	RADA-022
0	Plutonium-238	2.98E-09±2.31E-09	U			3.55E-09	µCi/mL	GP	RADA-011
1	Plutonium-238	6.59E-09±3.80E-09	J	I		5.41E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-1.41E-10±2.00E-10	U			1.82E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.06E-10±1.03E-09	U			3.00E-09	µCi/mL	GP	RADA-011
0	Potassium-40	1.60E-08±3.04E-08	U			2.97E-08	µCi/mL	GP	RADA-013
0	Promethium-144	1.08E-10±1.42E-09	U			2.50E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-1.20E-09±1.86E-09	U			3.16E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.29E-09±4.71E-10	J	I		4.80E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.15E-09±1.07E-09	U			2.22E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	-1.06E-08±1.32E-08	U			2.17E-08	µCi/mL	GP	RADA-013
0	Sodium-22	-8.85E-10±1.48E-09	U			2.53E-09	µCi/mL	GP	RADA-013
0	Strontium-89/90	2.17E-09±8.30E-10	J	I		1.41E-09	µCi/mL	GP	RADA-004
0	Technetium-99	-3.69E-09±7.62E-09	U			1.96E-08	µCi/mL	GP	RADA-005
0	Thorium-228	-2.94E-10±1.21E-09	U			3.47E-09	µCi/mL	GP	RADA-012
0	Thorium-230	-1.13E-10±1.62E-10	U			1.46E-09	µCi/mL	GP	RADA-012
0	Thorium-232	0.00E+00±2.01E-09	U			7.05E-10	µCi/mL	GP	RADA-012
0	Thorium-234	4.87E-08±1.85E-07	U			1.39E-07	µCi/mL	GP	RADA-013
0	Uranium-233/234	6.10E-11±5.91E-10	U			1.72E-09	µCi/mL	GP	RADA-011
0	Uranium-233/234	1.67E-10±3.34E-10	U			5.01E-10	µCi/mL	GP	RADA-011
0	Uranium-235	2.90E-10±5.57E-10	U			1.19E-09	µCi/mL	GP	RADA-011
0	Uranium-235	-3.35E-11±3.80E-10	U			1.35E-09	µCi/mL	GP	RADA-011
0	Uranium-238	3.43E-10±6.92E-10	U			1.54E-09	µCi/mL	GP	RADA-011
0	Uranium-238	2.20E-10±6.16E-10	U			1.51E-09	µCi/mL	GP	RADA-011
0	Yttrium-88	-6.95E-10±1.52E-09	U			2.60E-09	µCi/mL	GP	RADA-013
0	Zinc-65	-5.80E-10±3.36E-09	U			5.24E-09	µCi/mL	GP	RADA-013

## WELL HIN600TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.3  
 Sp. conductance: 131 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 9:36  
 Water temperature: 19.7°C  
 Air temperature: 17.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<9.47	U	V		15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	0.447	J	I		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	<0.346	U	V		2.00	µg/L	GE	EPA6020

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Second Quarter 2001



Well HIN600TK collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	<0.200	JU			0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	<0.971	U			0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chromium, total recoverable	<1.40	U		V	3.00	µg/L	GE	EPA6020
0	Cobalt, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Copper, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Iron, total recoverable	16.1	J			25.0	µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.12	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	<2.00	U			2.00	µg/L	GE	EPA6020
0	Selenium, total recoverable	<0.700	JU		4	5.00	µg/L	GE	EPA6020
0	Silver, total recoverable	<0.103	U	V		1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Thallium, total recoverable	0.553	U			0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6020
0	Toluene	<0.232	JU	L	O8	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.541	J	IL		1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<1.46	U	V		10.0	µg/L	GE	EPA6020
0	Zinc, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6020
0	Actinium-228	4.25E-09±7.94E-09	U			1.23E-08	µCi/mL	GP	RADA-013
0	Actinium-228	7.44E-09±5.09E-09	U			9.93E-09	µCi/mL	GP	RADA-013
0	Americium-241	-2.14E-10±2.12E-09	U			5.57E-09	µCi/mL	GP	RADA-011
0	Americium-241	-4.97E-10±2.16E-09	U			5.77E-09	µCi/mL	GP	RADA-011
0	Antimony-125	5.02E-09±3.99E-09	U			7.67E-09	µCi/mL	GP	RADA-013
0	Antimony-125	-1.03E-09±3.27E-09	U			5.74E-09	µCi/mL	GP	RADA-013
0	Carbon-14	1.30E-08±2.75E-08	U			4.68E-08	µCi/mL	GP	RADA-003
0	Carbon-14	2.64E-08±2.80E-08	U			4.69E-08	µCi/mL	GP	RADA-003
0	Cerium-144	7.64E-10±1.06E-08	U			1.84E-08	µCi/mL	GP	RADA-013
0	Cerium-144	2.92E-09±9.60E-09	U			1.67E-08	µCi/mL	GP	RADA-013
0	Cesium-134	3.25E-10±1.62E-09	U			2.54E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-3.17E-10±1.45E-09	U			2.20E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.79E-09±3.16E-09	U			2.69E-09	µCi/mL	GP	RADA-013
0	Cesium-137	2.76E-09±2.57E-09	J	I		2.24E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	2.50E-10±1.38E-09	U			2.40E-09	µCi/mL	GP	RADA-013
0	Cobalt-57	5.49E-10±1.14E-09	U			2.00E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.05E-10±1.53E-09	U			2.75E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-3.39E-11±1.30E-09	U			2.39E-09	µCi/mL	GP	RADA-013
0	Curium-242	3.76E-10±1.30E-09	U			3.29E-09	µCi/mL	GP	RADA-011
0	Curium-242	8.62E-10±1.57E-09	U			3.38E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	-1.70E-09±1.84E-09	U			5.94E-09	µCi/mL	GP	RADA-011
0	Curium-243/244	2.68E-10±2.11E-09	U			5.19E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	7.92E-10±1.40E-09	U			2.93E-09	µCi/mL	GP	RADA-011
0	Curium-245/246	-4.29E-10±9.13E-10	U			3.64E-09	µCi/mL	GP	RADA-011
0	Europium-152	3.26E-09±4.45E-09	U			8.25E-09	µCi/mL	GP	RADA-013
0	Europium-152	2.68E-09±4.18E-09	U			7.23E-09	µCi/mL	GP	RADA-013
0	Europium-154	6.05E-09±5.76E-09	U			7.83E-09	µCi/mL	GP	RADA-013
0	Europium-154	3.73E-09±3.99E-09	U			7.95E-09	µCi/mL	GP	RADA-013
0	Europium-155	-9.94E-11±5.76E-09	U			1.00E-08	µCi/mL	GP	RADA-013
0	Europium-155	1.22E-09±4.90E-09	U			8.61E-09	µCi/mL	GP	RADA-013
2	Iodine-129	6.46E-09±2.12E-09	U			1.55E-09	µCi/mL	GP	RADA-006

Well HIN600TK collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Iodine-129	7.06E-09±2.89E-09	J	I		2.07E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.44E-09±3.96E-09	U			5.57E-09	µCi/mL	GP	RADA-013
0	Lead-212	3.98E-09±4.20E-09	U			4.91E-09	µCi/mL	GP	RADA-013
0	Manganese-54	6.28E-10±1.49E-09	U			2.70E-09	µCi/mL	GP	RADA-013
0	Manganese-54	-7.47E-10±1.40E-09	U			2.33E-09	µCi/mL	GP	RADA-013
0	Nickel-63	-1.22E-08±1.57E-08	U			3.83E-08	µCi/mL	GP	RADA-022
0	Nickel-63	-1.46E-08±1.88E-08	U			4.58E-08	µCi/mL	GP	RADA-022
0	Plutonium-238	4.54E-11±3.99E-10	U			1.12E-09	µCi/mL	GP	RADA-011
0	Plutonium-238	-2.94E-10±4.18E-10	U			1.75E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.31E-10±5.75E-10	U			1.27E-09	µCi/mL	GP	RADA-011
0	Plutonium-239/240	-2.18E-10±9.16E-10	U			2.19E-09	µCi/mL	GP	RADA-011
0	Potassium-40	1.56E-08±1.94E-08	U			3.74E-08	µCi/mL	GP	RADA-013
0	Potassium-40	2.28E-08±1.51E-08	U			3.13E-08	µCi/mL	GP	RADA-013
0	Promethium-144	-7.26E-10±1.51E-09	U			2.51E-09	µCi/mL	GP	RADA-013
0	Promethium-144	1.05E-09±1.26E-09	U			2.35E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-7.66E-10±1.93E-09	U			3.33E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-3.75E-10±1.63E-09	U			2.87E-09	µCi/mL	GP	RADA-013
0	Radium-226	1.86E-09±6.66E-10	J	I		6.44E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.26E-09±1.19E-09	U			2.46E-09	µCi/mL	GP	RADA-009
0	Radium-228	1.18E-09±1.04E-09	U			2.14E-09	µCi/mL	GP	RADA-009
0	Ruthenium-106	1.04E-08±9.79E-09	U			2.01E-08	µCi/mL	GP	RADA-013
0	Ruthenium-106	2.86E-09±1.15E-08	U			2.06E-08	µCi/mL	GP	RADA-013
0	Sodium-22	2.17E-09±2.06E-09	U			2.71E-09	µCi/mL	GP	RADA-013
0	Sodium-22	1.35E-09±1.43E-09	U			2.85E-09	µCi/mL	GP	RADA-013
0	Strontium-89/90	5.23E-10±1.29E-09	U			2.96E-09	µCi/mL	GP	RADA-004
0	Strontium-89/90	2.10E-09±1.61E-09	U			3.32E-09	µCi/mL	GP	RADA-004
0	Technetium-99	-2.31E-09±8.15E-09	U			2.06E-08	µCi/mL	GP	RADA-005
0	Technetium-99	-8.46E-09±7.52E-09	U			2.07E-08	µCi/mL	GP	RADA-005
0	Thorium-228	5.77E-10±1.03E-09	U			2.21E-09	µCi/mL	GP	RADA-012
0	Thorium-230	2.39E-10±6.69E-10	U			1.63E-09	µCi/mL	GP	RADA-012
0	Thorium-232	1.37E-10±3.73E-10	U			9.54E-10	µCi/mL	GP	RADA-012
0	Thorium-234	1.18E-07±1.32E-07	U			1.44E-07	µCi/mL	GP	RADA-013
0	Thorium-234	5.88E-09±7.93E-08	U			1.11E-07	µCi/mL	GP	RADA-013
0	Uranium-233/234	-1.89E-10±1.71E-10	U			1.28E-09	µCi/mL	GP	RADA-011
0	Uranium-233/234	5.29E-10±6.62E-10	U			1.12E-09	µCi/mL	GP	RADA-011
0	Uranium-235	4.43E-11±3.42E-10	U			1.10E-09	µCi/mL	GP	RADA-011
0	Uranium-235	4.53E-11±3.50E-10	U			1.12E-09	µCi/mL	GP	RADA-011
0	Uranium-238	2.77E-10±4.53E-10	U			8.32E-10	µCi/mL	GP	RADA-011
0	Uranium-238	1.23E-10±3.32E-10	U			8.51E-10	µCi/mL	GP	RADA-011
0	Yttrium-88	-7.39E-11±1.65E-09	U			3.14E-09	µCi/mL	GP	RADA-013
0	Yttrium-88	9.56E-11±1.41E-09	U			2.63E-09	µCi/mL	GP	RADA-013
0	Zinc-65	-5.72E-09±3.86E-09	U			5.92E-09	µCi/mL	GP	RADA-013
0	Zinc-65	-5.71E-09±3.07E-09	U			4.60E-09	µCi/mL	GP	RADA-013

## WELL HIN600TK

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 122 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 16:26  
 Water temperature: 22.2°C  
 Air temperature: 25.1°C  
 Total alkalinity (as CaCO3): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<11.0	U	V		15.0	µg/L	GE	EPA6020
0	Antimony, total recoverable	<0.184	JU		4	2.00	µg/L	GE	EPA6020
0	Arsenic, total recoverable	<0.568	U	V		3.00	µg/L	GE	EPA6020
0	Barium, total recoverable	<0.182	JU		4	2.00	µg/L	GE	EPA6020
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Bis(2-ethylhexyl) phthalate	<0.971	U			0.971	µg/L	GE	EPA8270C
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Cadmium, total recoverable	<0.105	JU		4	1.00	µg/L	GE	EPA6020
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B



Well HIN600TK collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	<1.62	U	V	3.00		µg/L	GE	EPA6020
0	Cobalt, total recoverable	<1.00	U		1.00		µg/L	GE	EPA6020
0	Copper, total recoverable	<1.00	U		1.00		µg/L	GE	EPA6020
0	Cyanide	<5.00	U		5.00		µg/L	GE	EPA9012A
0	Dibromochloromethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U		5.00		µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Iron, total recoverable	<22.8	U	V	25.0		µg/L	GE	EPA6020
0	Lead, total recoverable	<2.00	U		2.00		µg/L	GE	EPA6020
1	Mercury, total recoverable	1.19	U		0.200		µg/L	GE	EPA7470A
0	Nickel, total recoverable	<2.00	U		2.00		µg/L	GE	EPA6020
0	Selenium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6020
0	Silver, total recoverable	<0.246	JU		4	1.00	µg/L	GE	EPA6020
0	1,1,2,2-Tetrachloroethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Thallium, total recoverable	<0.295	JU		4	0.500	µg/L	GE	EPA6020
0	Tin, total recoverable	<0.329	U	V	5.00		µg/L	GE	EPA6020
0	Toluene	<1.00	U		1.00		µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Trichloroethylene	0.494	J	I	1.00		µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U		1.00		µg/L	GE	EPA8260B
0	Vanadium, total recoverable	<1.61	U	V	10.0		µg/L	GE	EPA6020
0	Zinc, total recoverable	<1.21	U	V	10.0		µg/L	GE	EPA6020
0	Actinium-228	5.96E-09±5.74E-09	U		1.11E-08		µCi/mL	GP	RADA-013
0	Americium-241	6.64E-10±7.72E-10	U		6.64E-10		µCi/mL	GP	RADA-011
0	Americium-241	4.48E-10±6.37E-10	U		6.72E-10		µCi/mL	GP	RADA-011
0	Antimony-125	8.43E-10±4.54E-09	U		7.81E-09		µCi/mL	GP	RADA-013
0	Carbon-14	1.47E-08±1.38E-08	U		2.29E-08		µCi/mL	GP	RADA-003
0	Carbon-14	7.73E-09±1.35E-08	U		2.29E-08		µCi/mL	GP	RADA-003
0	Cerium-144	5.63E-09±1.10E-08	U		1.93E-08		µCi/mL	GP	RADA-013
0	Cesium-134	-7.95E-10±1.70E-09	U		2.51E-09		µCi/mL	GP	RADA-013
0	Cesium-137	-2.18E-09±1.62E-09	U		2.59E-09		µCi/mL	GP	RADA-013
0	Cobalt-57	2.93E-10±1.48E-09	U		2.57E-09		µCi/mL	GP	RADA-013
0	Cobalt-60	2.15E-09±1.11E-09	U		2.90E-09		µCi/mL	GP	RADA-013
0	Curium-242	0.00E+00±2.00E-09	U		7.10E-10		µCi/mL	GP	RADA-011
0	Curium-242	-1.15E-10±1.63E-10	U		1.49E-09		µCi/mL	GP	RADA-011
0	Curium-243/244	1.68E-10±4.56E-10	U		1.17E-09		µCi/mL	GP	RADA-011
0	Curium-243/244	-5.38E-11±1.08E-10	U		1.18E-09		µCi/mL	GP	RADA-011
0	Curium-245/246	1.95E-10±5.29E-10	U		1.36E-09		µCi/mL	GP	RADA-011
0	Curium-245/246	2.60E-10±5.21E-10	U		7.80E-10		µCi/mL	GP	RADA-011
0	Europium-152	4.97E-10±4.65E-09	U		7.98E-09		µCi/mL	GP	RADA-013
0	Europium-154	2.35E-09±4.16E-09	U		8.01E-09		µCi/mL	GP	RADA-013
0	Europium-155	1.62E-09±6.28E-09	U		1.10E-08		µCi/mL	GP	RADA-013
2	Iodine-129	4.41E-09±1.43E-09	U		1.09E-09		µCi/mL	GP	RADA-006
2	Iodine-129	4.52E-09±2.59E-09	R		3.51E-09		µCi/mL	GP	RADA-006
0	Lead-212	2.82E-09±4.50E-09	U	4	5.03E-09		µCi/mL	GP	RADA-013
0	Manganese-54	-1.11E-09±1.52E-09	U		2.53E-09		µCi/mL	GP	RADA-013
0	Nickel-63	1.59E-08±2.31E-08	U		4.03E-08		µCi/mL	GP	RADA-022
0	Nickel-63	6.28E-09±2.18E-08	U		3.76E-08		µCi/mL	GP	RADA-022
0	Plutonium-238	1.29E-09±1.98E-09	U		4.06E-09		µCi/mL	GP	RADA-011
0	Plutonium-238	5.16E-10±1.34E-09	U		3.09E-09		µCi/mL	GP	RADA-011
0	Plutonium-239/240	5.42E-10±8.88E-10	U		1.63E-09		µCi/mL	GP	RADA-011
0	Plutonium-239/240	1.88E-11±7.36E-10	U		2.22E-09		µCi/mL	GP	RADA-011
0	Plutonium-244	-6.16E-11±6.99E-10	U		2.49E-09		µCi/mL	GP	RADA-011
0	Potassium-40	6.62E-09±4.40E-08	U		2.77E-08		µCi/mL	GP	RADA-013
0	Promethium-144	-1.77E-10±1.50E-09	U		2.64E-09		µCi/mL	GP	RADA-013
0	Promethium-146	7.63E-11±2.17E-09	U		3.69E-09		µCi/mL	GP	RADA-013
0	Radium-226	2.00E-09±5.65E-10	U		2.94E-10		µCi/mL	GP	RADA-008
0	Radium-226	1.68E-09±5.16E-10	U		3.94E-10		µCi/mL	GP	RADA-008
1	Radium-228	3.97E-09±1.68E-09	J	I	3.04E-09		µCi/mL	GP	RADA-009
0	Radium-228	1.54E-09±1.71E-09	U		3.59E-09		µCi/mL	GP	RADA-009
0	Ruthenium-106	-1.44E-09±1.34E-08	U		2.38E-08		µCi/mL	GP	RADA-013
0	Sodium-22	5.18E-10±1.53E-09	U		2.86E-09		µCi/mL	GP	RADA-013
0	Strontium-89/90	1.47E-09±1.19E-09	U		2.49E-09		µCi/mL	GP	RADA-004
0	Strontium-89/90	3.13E-09±1.33E-09	J	I	2.32E-09		µCi/mL	GP	RADA-004
0	Technetium-99	-5.74E-09±7.58E-09	U		2.00E-08		µCi/mL	GP	RADA-005
0	Technetium-99	-6.18E-09±7.61E-09	U		2.02E-08		µCi/mL	GP	RADA-005
0	Thorium-228	-1.57E-10±9.09E-10	U		2.25E-09		µCi/mL	GP	RADA-012
0	Thorium-230	2.16E-10±4.36E-10	U		9.11E-10		µCi/mL	GP	RADA-012

Well HIN600TK collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thorium-232	2.89E-10±4.13E-10	U		4.33E-10		µCi/mL	GP	RADA-012
0	Thorium-234	6.16E-09±1.19E-07	U		1.68E-07		µCi/mL	GP	RADA-013
0	Uranium-233/234	1.18E-09±1.35E-09	U		2.41E-09		µCi/mL	GP	RADA-011
0	Uranium-233/234	4.18E-09±2.10E-09	J	I	2.07E-09		µCi/mL	GP	RADA-011
0	Uranium-235	3.83E-10±8.99E-10	U		2.11E-09		µCi/mL	GP	RADA-011
0	Uranium-235	9.40E-10±1.01E-09	U		1.52E-09		µCi/mL	GP	RADA-011
1	Uranium-238	7.59E-09±2.96E-09	J	I	1.85E-09		µCi/mL	GP	RADA-011
0	Uranium-238	4.32E-09±2.04E-09	J	I	1.16E-09		µCi/mL	GP	RADA-011
0	Yttrium-88	-4.59E-11±1.80E-09	U		3.34E-09		µCi/mL	GP	RADA-013
0	Zinc-65	3.57E-09±3.55E-09	U		6.30E-09		µCi/mL	GP	RADA-013

## WELL HSB 65

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 34.62 ft (10.55 m) below TOC  
 Water elevation: 237.38 ft (72.35 m) msl  
 pH: 5  
 Sp. conductance: 119 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 43 gal

Time: 13:56  
 Water temperature: 22.4°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0720	J	I	0.200		µg/L	GE	EPA6020
0	Mercury, total recoverable	0.945	U		0.200		µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	11,500	U	V	500		µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	10,800	U		500		µg/L	GE	EPA353.1
0	pH	4.82	J	Q	0.100		pH	GE	EPA9040B
0	Specific conductance	91.3	U		1.00		µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.359	U	V	0.500		µg/L	GE	EPA6020
0	Gross alpha	6.46E-10±2.20E-09	U		5.40E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.40E-09±3.55E-09	J	I	6.53E-09		µCi/mL	GP	EPA900.0
2	Tritium	2.17E-03±4.22E-05	U		4.56E-06		µCi/mL	GP	RADA-002

## WELL HSB 65A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 103.35 ft (31.5 m) below TOC  
 Water elevation: 170.25 ft (51.89 m) msl  
 pH: 6.8  
 Sp. conductance: 197 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 99 gal

Time: 8:54  
 Water temperature: 16.6°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 131 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200		µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		1.60		µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U		0.200		µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U		0.700		µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	10.0	J	I	50.0		µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	135	U		20.0		µg/L	WA	EPA353.2
0	pH	7.19	J	Q	0.100		pH	GE	EPA9040B
0	pH	7.46	J	Q	0.100		pH	WA	EPA9040B
0	Specific conductance	147	U		1.00		µS/cm	GE	EPA9050A
0	Specific conductance	198	J	Q	8.90		µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.500	U		0.500		µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		55.0		µg/L	WA	EPA6010B
0	Gross alpha	7.21E-10±1.35E-09	JU	L	3.06E-09		µCi/mL	GP	EPA900.0
0	Gross alpha	-9.75E-10±2.41E-09	U		1.88E-08		µCi/mL	ML	RADA-001
0	Nonvolatile beta	3.56E-09±2.28E-09	U		4.49E-09		µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.88E-09±2.41E-09	U		1.58E-08		µCi/mL	ML	RADA-001
0	Tritium	6.98E-07±4.08E-07	J	I	6.58E-07		µCi/mL	GP	RADA-002
0	Tritium	1.03E-06±3.80E-07	J	I	5.62E-07		µCi/mL	ML	RADA-002



**WELL HSB 65A Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 103.35 ft (31.5 m) below TOC  
 Water elevation: 170.25 ft (51.89 m) msl  
 pH: 6.8  
 Sp. conductance: 197 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 99 gal

Time: 8:54  
 Water temperature: 16.6°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 131 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.29	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	165				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-1.24E-10±9.94E-10	JU	L	I	2.98E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.95E-09±2.39E-09	U			5.25E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.78E-07±4.15E-07	J	I		6.64E-07	µCi/mL	GP	RADA-002

**WELL HSB 65B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 49.4 ft (15.06 m) below TOC  
 Water elevation: 224.3 ft (68.37 m) msl  
 pH: 7.7  
 Sp. conductance: 196 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 116 gal

Time: 9:14  
 Water temperature: 16.1°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 72 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	7.75	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	144				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	9.86E-11±1.13E-09	JU	L	I	3.04E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.84E-09±2.59E-09	J	I		4.81E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.72E-06±5.19E-07				7.04E-07	µCi/mL	GP	RADA-002

**WELL HSB 65C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 35.33 ft (10.77 m) below TOC  
 Water elevation: 238.27 ft (72.63 m) msl  
 pH: 4.9  
 Sp. conductance: 122 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 49 gal

Time: 14:12  
 Water temperature: 22.5°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0410	JU		4	0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.50				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	12,300				500	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	11,900				500	µg/L	GE	EPA353.1
0	pH	4.85	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.85	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	97.2				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	97.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.774	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	2.57E-09±2.83E-09	U			5.80E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.25E-08±4.14E-09	J	I		7.01E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.20E-03±4.25E-05				4.57E-06	µCi/mL	GP	RADA-002

**WELL HSB 66**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 70.65 ft (21.53 m) below TOC  
 Water elevation: 209.55 ft (63.87 m) msl  
 pH: 5.5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 12 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 11:07  
 Water temperature: 21°C  
 Air temperature: 14.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.269	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,850				50.0	µg/L	GE	EPA353.1
0	pH	5.02	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	23.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	9.44E-10±1.31E-09	JU	L	I	2.77E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.04E-09±2.54E-09	J	I		4.34E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.72E-05±1.12E-06				7.06E-07	µCi/mL	GP	RADA-002

**WELL HSB 67**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 15.35 ft (4.68 m) below TOC  
 Water elevation: 222.45 ft (67.8 m) msl  
 pH: 4.1  
 Sp. conductance: 126 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 43 gal

Time: 9:56  
 Water temperature: 18.5°C  
 Air temperature: 21.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.233				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.61				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	11,600				250	µg/L	GE	EPA353.1
0	pH	4.33	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	39.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
2	Gross alpha	2.17E-08±4.29E-09				2.05E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	5.23E-07±1.56E-08				4.08E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.09E-03±2.14E-05				3.11E-06	µCi/mL	GP	RADA-002

**WELL HSB 68**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 33.1 ft (10.09 m) below TOC  
 Water elevation: 217 ft (66.14 m) msl  
 pH: 4.5  
 Sp. conductance: 58 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 12:33  
 Water temperature: 20.4°C  
 Air temperature: 21.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.300				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.23				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5,050				250	µg/L	GE	EPA353.1
0	pH	4.34	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.36	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	64.1				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.465	J	I		0.500	µg/L	GE	EPA6020
2	Gross alpha	1.55E-08±4.41E-09				2.92E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	2.10E-08±5.31E-09				3.13E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.07E-06±2.69E-08	J	L	I	6.26E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.08E-06±2.79E-08	J	L	I	8.07E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.13E-04±2.84E-06				6.87E-07	µCi/mL	GP	RADA-002



**WELL HSB 68A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 78.9 ft (24.05 m) below TOC  
 Water elevation: 170.5 ft (51.97 m) msl  
 pH: 8.6  
 Sp. conductance: 168 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 8:05  
 Water temperature: 18.9°C  
 Air temperature: 13.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 81 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0390	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	40.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	7.48	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	140				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	140				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.812				0.500	µg/L	GE	EPA6020
0	Gross alpha	-6.54E-11±7.76E-10	U			2.39E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.68E-09±1.89E-09	U			4.08E-09	µCi/mL	GP	EPA900.0
0	Tritium	9.81E-06±7.95E-07				9.11E-07	µCi/mL	GP	RADA-002
1	Tritium	1.02E-05±8.03E-07				9.08E-07	µCi/mL	GP	RADA-002
1	Tritium	1.06E-05±7.26E-07				6.65E-07	µCi/mL	GP	RADA-002

**WELL HSB 68B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 34.95 ft (10.65 m) below TOC  
 Water elevation: 215.05 ft (65.55 m) msl  
 pH: 7.7  
 Sp. conductance: 220 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 130 gal

Time: 15:11  
 Water temperature: 18.7°C  
 Air temperature: 13.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 112 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	330				50.0	µg/L	GE	EPA353.1
0	pH	7.70	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	160				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-1.10E-09±5.64E-10	JU	L	I	3.07E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.08E-09±1.91E-09	U			3.99E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.37E-05±1.07E-06				7.22E-07	µCi/mL	GP	RADA-002

**WELL HSB 68C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 34.5 ft (10.52 m) below TOC  
 Water elevation: 215.6 ft (65.72 m) msl  
 pH: 5.8  
 Sp. conductance: 116 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 64 gal

Time: 14:54  
 Water temperature: 17.9°C  
 Air temperature: 13.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.170	J	IK	C	0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.37				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	11,200				250	µg/L	GE	EPA353.1
0	pH	5.63	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	86.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.99E-10±9.61E-10	JU	L	I	2.37E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.85E-09±2.58E-09	J	I		3.96E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.39E-03±2.70E-05				2.84E-06	µCi/mL	GP	RADA-002

**WELL HSB 69**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 21.4 ft (6.52 m) below TOC  
 Water elevation: 214.6 ft (65.41 m) msl  
 pH: 4.2  
 Sp. conductance: 50 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 11:12  
 Water temperature: 19.2°C  
 Air temperature: 27.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.212				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,960				50.0	µg/L	GE	EPA353.1
0	pH	4.29	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.29	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	42.0				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	42.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.02E-09±1.93E-09	J	I		2.09E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	3.27E-07±1.23E-08				5.06E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.81E-05±1.43E-06				8.73E-07	µCi/mL	GP	RADA-002

**WELL HSB 69A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 65.6 ft (20 m) below TOC  
 Water elevation: 171 ft (52.12 m) msl  
 pH: 7.3  
 Sp. conductance: 145 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 8:51  
 Water temperature: 18.4°C  
 Air temperature: 14.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 72 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0440	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	10.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	6.84	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	239				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.363	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	4.30E-10±9.91E-10	U			2.35E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.49E-09±2.22E-09	U			4.94E-09	µCi/mL	GP	EPA900.0
0	Tritium	-2.25E-07±3.55E-07	U			6.39E-07	µCi/mL	GP	RADA-002

**WELL HSB 70**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 26.3 ft (8.02 m) below TOC  
 Water elevation: 216.5 ft (65.99 m) msl  
 pH: 5.6  
 Sp. conductance: 56 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 12:18  
 Water temperature: 24.6°C  
 Air temperature: 20°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	670				50.0	µg/L	GE	EPA353.1
0	pH	5.26	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	51.1				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	51.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	5.11E-11±1.36E-09	U			3.53E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.84E-09±2.64E-09	J	I		4.93E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.12E-05±1.64E-06				6.79E-07	µCi/mL	GP	RADA-002



**WELL HSB 70C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 24.01 ft (7.32 m) below TOC  
 Water elevation: 219.09 ft (66.78 m) msl  
 pH: 6.5  
 Sp. conductance: 481 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:54  
 Water temperature: 20.3°C  
 Air temperature: 27.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.591				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	52.300				1.250	µg/L	GE	EPA353.1
0	pH	6.61	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	438				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0520	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	5.35E-09±2.38E-09	J	I		1.92E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.23E-07±6.83E-09				3.10E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.84E-03±1.37E-05				7.99E-07	µCi/mL	GP	RADA-002

**WELL HSB 71**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 28.25 ft (8.61 m) below TOC  
 Water elevation: 213.15 ft (64.97 m) msl  
 pH: 5.4  
 Sp. conductance: 27 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 13:12  
 Water temperature: 21.2°C  
 Air temperature: 22.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 22 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	150				50.0	µg/L	GE	EPA353.1
0	pH	5.00	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	27.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	3.38E-10±6.63E-10	U			1.44E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.77E-10±1.74E-09	U			4.04E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.04E-05±7.31E-07				6.90E-07	µCi/mL	GP	RADA-002

**WELL HSB 71C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 20.8 ft (6.34 m) below TOC  
 Water elevation: 220.8 ft (67.3 m) msl  
 pH: 8.6  
 Sp. conductance: 185 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 13:25  
 Water temperature: 21.3°C  
 Air temperature: 22.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 25 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.257	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.190	J	I		0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	16,300				500	µg/L	GE	EPA353.1
0	pH	6.57	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	264				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.26E-09±1.53E-09	J	I		1.63E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.47E-08±4.38E-09				4.07E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.52E-03±2.97E-05				3.02E-06	µCi/mL	GP	RADA-002

**WELL HSB 83A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 65.05 ft (19.83 m) below TOC  
 Water elevation: 172.25 ft (52.5 m) msl  
 pH: 7  
 Sp. conductance: 180 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:11  
 Water temperature: 20.2°C  
 Air temperature: 23.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 36 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.03	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	162				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-2.39E-10±6.43E-10	U			2.33E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	4.42E-10±1.04E-09	U			2.47E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.95E-10±1.78E-09	U			4.28E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.51E-10±2.21E-09	U			5.16E-09	µCi/mL	GP	EPA900.0
0	Tritium	-3.18E-07±3.66E-07	U			6.65E-07	µCi/mL	GP	RADA-002

**WELL HSB 83B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 14.63 ft (4.46 m) below TOC  
 Water elevation: 222.37 ft (67.78 m) msl  
 pH: 6.9  
 Sp. conductance: 107 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 177 gal

Time: 14:13  
 Water temperature: 19.8°C  
 Air temperature: 23.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	10.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	6.92	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	97.8				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	3.18E-10±9.42E-10	JU	L	I	2.33E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.14E-09±1.77E-09	U			3.95E-09	µCi/mL	GP	EPA900.0
0	Tritium	6.68E-07±4.05E-07	J	I		6.56E-07	µCi/mL	GP	RADA-002

**WELL HSB 83C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 12.75 ft (3.89 m) below TOC  
 Water elevation: 224.35 ft (68.38 m) msl  
 pH: 5.2  
 Sp. conductance: 21 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 135 gal

Time: 15:17  
 Water temperature: 20.2°C  
 Air temperature: 22.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.100	J	IK	C	0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		X	1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U		X	0.700	µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	48.0				20.0	µg/L	WA	EPA353.2
0	pH	5.51	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.51	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.68	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	19.5				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	21.7	J	Q		8.90	µS/cm	WA	EPA9050A



Well HSB 83C collected on 04/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		X	55.0	µg/L	WA	EPA6010B
0	Gross alpha	-2.99E-10±7.71E-10	U			2.60E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	1.12E-09±2.95E-09	U			1.68E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.77E-09±2.05E-09	U			4.13E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.63E-09±3.80E-09	U			1.49E-08	µCi/mL	ML	RADA-001
0	Tritium	1.66E-07±3.91E-07	U			6.70E-07	µCi/mL	GP	RADA-002
0	Tritium	6.08E-07±3.41E-07	J	I		5.37E-07	µCi/mL	ML	RADA-002

**WELL HSB 83C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 12.75 ft (3.89 m) below TOC  
 Water elevation: 224.35 ft (68.38 m) msl  
 pH: 5.2  
 Sp. conductance: 21 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 135 gal

Time: 15:17  
 Water temperature: 20.2°C  
 Air temperature: 22.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0960	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	30.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	5.38	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	19.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.65E-09±1.74E-09	U			3.53E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.00E-09±1.93E-09	U			4.93E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.50E-08±3.78E-07	U			6.54E-07	µCi/mL	GP	RADA-002

**WELL HSB 83D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 11.87 ft (3.62 m) below TOC  
 Water elevation: 225.13 ft (68.62 m) msl  
 pH: 5.4  
 Sp. conductance: 59 µS/cm  
 Turbidity: 2 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:01  
 Water temperature: 20.3°C  
 Air temperature: 22.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0550	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.264				0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2,640				150	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	2,670				150	µg/L	GE	EPA353.1
0	pH	5.47	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	54.8				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	54.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.415	J	I		0.500	µg/L	GE	EPA6020
0	Gross alpha	3.13E-09±1.65E-09	J	IL	I	1.52E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.01E-08±3.46E-09				3.90E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.18E-04±2.37E-06				7.67E-07	µCi/mL	GP	RADA-002

**WELL HSB 84A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 57.95 ft (17.66 m) below TOC  
 Water elevation: 170.75 ft (52.05 m) msl  
 pH: 6.8  
 Sp. conductance: 103 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 9:35  
 Water temperature: 18.9°C  
 Air temperature: 15.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 42 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0360	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	6.53	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	99.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.282	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	3.16E-10±1.47E-09	U			3.62E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.30E-09±2.95E-09	J	I		5.74E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.12E-06±4.26E-07	J	I		6.57E-07	µCi/mL	GP	RADA-002

**WELL HSB 84B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 20.05 ft (6.11 m) below TOC  
 Water elevation: 208.85 ft (63.66 m) msl  
 pH: 10.2  
 Sp. conductance: 158 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 10:21  
 Water temperature: 19.9°C  
 Air temperature: 15.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 70 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.442				0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2,660				50.0	µg/L	GE	EPA353.1
2	pH	10.0	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	130				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.258	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	4.34E-10±9.64E-10	U			2.12E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.08E-08±2.81E-09				4.12E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.07E-04±2.16E-06				7.15E-07	µCi/mL	GP	RADA-002

**WELL HSB 84C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 18 ft (5.49 m) below TOC  
 Water elevation: 211.1 ft (64.34 m) msl  
 pH: 7.7  
 Sp. conductance: 78 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 10:40  
 Water temperature: 19.9°C  
 Air temperature: 15.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	3,660				150	µg/L	GE	EPA353.1
0	pH	6.54	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	72.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.43E-10±8.69E-10	U			2.01E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.20E-08±2.98E-09				4.38E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.96E-04±7.80E-06				1.45E-06	µCi/mL	GP	RADA-002



## WELL HSB 84D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 15.1 ft (4.6 m) below TOC  
 Water elevation: 213.7 ft (65.14 m) msl  
 pH: 4.2  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 34 gal

Time: 14:21  
 Water temperature: 23.6°C  
 Air temperature: 30.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.170	J	I	0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	0.182	J	I	0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	2.870			50.0	µg/L	GE	EPA353.1	
0	pH	4.42	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	85.8			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	6.23E-09±2.47E-09	J	I	2.51E-09	µCi/mL	GP	EPA900.0	
2	Nonvolatile beta	2.21E-07±1.03E-08			4.65E-09	µCi/mL	GP	EPA900.0	
2	Tritium	5.21E-04±1.03E-05			2.02E-06	µCi/mL	GP	RADA-002	

## WELL HSB 85A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 126.45 ft (38.54 m) below TOC  
 Water elevation: 167.95 ft (51.19 m) msl  
 pH: 7.7  
 Sp. conductance: 180 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 42 gal

Time: 8:33  
 Water temperature: 17.4°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 70 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U		50.0	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	<0.0370	JU		0.200	µg/L	GE	EPA6020	
0	Cadmium, total recoverable	<1.00	U		1.00	µg/L	GE	EPA6020	
0	Lead, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	10.0	J	I	50.0	µg/L	GE	EPA353.1	
0	pH	7.05	J	Q	0.100	pH	GE	EPA9040B	
0	pH	7.03	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	160			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	2.32E-10±2.31E-09	U		6.64E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	-2.68E-09±5.01E-09	U		1.30E-08	µCi/mL	GP	EPA900.0	
0	Tritium	1.73E-07±3.32E-07	U		5.67E-07	µCi/mL	GP	RADA-002	
0	Tritium	2.17E-07±3.40E-07	U		5.77E-07	µCi/mL	GP	RADA-002	

## WELL HSB 85A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 126.89 ft (38.68 m) below TOC  
 Water elevation: 167.51 ft (51.06 m) msl  
 pH: 6.6  
 Sp. conductance: 179 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 175 gal

Time: 11:03  
 Water temperature: 21°C  
 Air temperature: 33.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 60 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	79.0			6.700	mg/L	WA	EPA310.1	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	

Well HSB 85A collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Barium, total recoverable	30.8			1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Boron, total recoverable	<266	U		266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.840	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U		15.0	µg/L	WA	EPA6010B	
0	Cyanide	1.97	J	I	X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	3.60			2.70	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Nickel, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Nitrate-nitrite as nitrogen	11.0	J	I	20.0	µg/L	WA	EPA353.2	
0	Phenols	<37.0	JU	Q	37.0	µg/L	WA	EPA9066	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Sulfate	5.630			340	µg/L	WA	EPA9056	
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U		70.0	µg/L	WA	EPA6010B	
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	139,000	J	Q	50,000	µg/L	WA	EPA160.1	
0	Total organic carbon	263	I		1,000	µg/L	WA	EPA9060	
0	Total organic halogens	<120	U		120	µg/L	WA	EPA9020B	
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U		53.0	µg/L	WA	EPA6010B	
0	Carbon-14	1.08E-09±2.67E-08	U		4.61E-08	µCi/mL	GP	RADA-003	
0	Gross alpha	5.62E-09±3.80E-09	U		1.39E-08	µCi/mL	ML	RADA-001B	
0	Nonvolatile beta	-3.02E-09±2.19E-09	U		1.41E-08	µCi/mL	ML	RADA-001B	
0	Radium, total alpha-emitting	3.35E-10±2.96E-10	U		4.59E-10	µCi/mL	GP	RADA-010	
0	Radium-226	3.96E-10±3.17E-10	U		4.66E-10	µCi/mL	GP	RADA-008	
0	Radium-228	3.96E-10±4.38E-10	U		8.78E-10	µCi/mL	GP	RADA-009	
0	Strontium-90	-3.76E-10±3.47E-10	U		8.19E-10	µCi/mL	GP	RADA-004	
0	Tritium	7.47E-07±3.71E-07	J	I	5.76E-07	µCi/mL	ML	RADA-002	



**WELL HSB 85B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 62.95 ft (19.19 m) below TOC  
 Water elevation: 231.55 ft (70.58 m) msl  
 pH: 9.9  
 Sp. conductance: 224 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 8:19  
 Water temperature: 16.5°C  
 Air temperature: 12.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 87 mg/L  
 Phenolphthalein alkalinity: 55 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	990			50.0	µg/L	GE	EPA353.1	
2	pH	10.6	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	239			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.0490	U	V	0.500	µg/L	GE	EPA6020	
0	Gross alpha	9.17E-10±2.12E-09	U		5.04E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	1.46E-09±5.01E-09	U		1.18E-08	µCi/mL	GP	EPA900.0	
0	Tritium	4.85E-06±5.56E-07			6.50E-07	µCi/mL	GP	RADA-002	

**WELL HSB 85B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 62.57 ft (19.07 m) below TOC  
 Water elevation: 231.93 ft (70.69 m) msl  
 pH: 8  
 Sp. conductance: 200 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 2 gal  
 The well went dry during purging.

Time: 8:13  
 Water temperature: 20.3°C  
 Air temperature: 19.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 86 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	98.0			6,700	mg/L	WA	EPA310.1	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	24.7			1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Boron, total recoverable	<266	U		266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	2-Chloroethyl vinyl ether	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chromium, total recoverable	2.80	J	I	7.00	µg/L	WA	EPA6010B	
0	Copper, total recoverable	<15.0	U		15.0	µg/L	WA	EPA6010B	
0	Cyanide	<15.2	U		15.2	µg/L	WA	EPA9014	
0	Dibromochloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,2-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Lead, total recoverable	<47.0	U		47.0	µg/L	WA	EPA6010B	
0	Lithium, total recoverable	1.50	J	I	2.70	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<0.700	U		0.700	µg/L	WA	EPA7470A	
0	Nickel, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Nitrate-nitrite as nitrogen	60.0			20.0	µg/L	WA	EPA353.2	
0	Phenols	<37.0	U		37.0	µg/L	WA	EPA9066	
0	Selenium, total recoverable	<66.0	U		66.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	WA	EPA6010B	
0	Sulfate	867			340	µg/L	WA	EPA9056	

ESH-EMS-20010585

Well HSB 85B collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tetrachloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tin, total recoverable	<70.0	U		70.0	µg/L	WA	EPA6010B	
0	Toluene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Total dissolved solids	129,000	J		50,000	µg/L	WA	EPA160.1	
0	Total organic carbon	862	J	IQ	1,000	µg/L	WA	EPA9060	
0	Total organic halogens	<120	U		120	µg/L	WA	EPA9020B	
0	1,1,1-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichlorofluoromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Xylenes	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Zinc, total recoverable	10.9	J	I	53.0	µg/L	WA	EPA6010B	
0	Carbon-14	1.08E-09±2.67E-08	U		4.62E-08	µCi/mL	GP	RADA-003	
1	Gross alpha	9.11E-09±2.78E-09	J	I	6.17E-09	µCi/mL	ML	RADA-001	
0	Nonvolatile beta	5.06E-09±2.15E-09	U		7.53E-09	µCi/mL	ML	RADA-001	
0	Radium, total alpha-emitting	1.35E-10±1.36E-10	U		2.27E-10	µCi/mL	GP	RADA-010	
0	Radium-226	1.58E-10±2.55E-10	U		4.46E-10	µCi/mL	GP	RADA-008	
0	Radium-228	6.85E-10±5.39E-10	U		1.09E-09	µCi/mL	GP	RADA-009	
0	Strontium-90	-2.65E-11±2.35E-10	U		5.78E-10	µCi/mL	GP	RADA-004	
0	Tritium	3.97E-08±3.47E-07	U		6.12E-07	µCi/mL	ML	RADA-002	
0	Tritium	8.93E-08±3.58E-07	U		6.24E-07	µCi/mL	ML	RADA-002	

**WELL HSB 85C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 63.1 ft (19.23 m) below TOC  
 Water elevation: 231 ft (70.41 m) msl  
 pH: 5.2  
 Sp. conductance: 38 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 9:10  
 Water temperature: 19.3°C  
 Air temperature: 13.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.109	J	I	0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	3.340			100	µg/L	GE	EPA353.1	
0	pH	4.50	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	27.6			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.0900	JU		0.500	µg/L	GE	EPA6020	
0	Gross alpha	3.17E-09±3.50E-09	U		6.47E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	2.53E-09±5.57E-09	U		1.27E-08	µCi/mL	GP	EPA900.0	
1	Tritium	1.13E-05±7.39E-07			6.60E-07	µCi/mL	GP	RADA-002	

**WELL HSB 85C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 56.32 ft (17.17 m) below TOC  
 Water elevation: 237.78 ft (72.48 m) msl  
 pH: 4.6  
 Sp. conductance: 39 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 62 gal

Time: 12:20  
 Water temperature: 24°C  
 Air temperature: 37.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U		6,700	mg/L	WA	EPA310.1	
0	Antimony, total recoverable	<27.0	U		27.0	µg/L	WA	EPA6010B	
0	Arsenic, total recoverable	<40.0	U		40.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	12.3			1.80	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Boron, total recoverable	<266	U		266	µg/L	WA	EPA6010B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Cadmium, total recoverable	<4.70	U		4.70	µg/L	WA	EPA6010B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	

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Well HSB 85C collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	76.9				15.0	µg/L	WA	EPA6010B
0	Cyanide	1.97	J	I	X	15.2	µg/L	WA	EPA9014
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	0.290	J	I		2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	2,660				100	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	283	J	I		340	µg/L	WA	EPA9056
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Total dissolved solids	38,000	J	IQ		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	202	J	I		1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.02E-09±2.66E-08	U			4.62E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.34E-08±5.44E-09	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.93E-09±2.00E-09	U			1.42E-08	µCi/mL	ML	RADA-001B
1	Radium, total alpha-emitting	2.98E-09±8.16E-10				6.18E-10	µCi/mL	GP	RADA-010
0	Radium-226	9.56E-10±3.81E-10	J	I		2.70E-10	µCi/mL	GP	RADA-008
0	Radium-228	2.24E-09±6.18E-10	J	I		1.07E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-5.85E-11±2.64E-10	J			5.81E-10	µCi/mL	GP	RADA-004
1	Tritium	1.06E-05±7.48E-07				5.69E-07	µCi/mL	ML	RADA-002

## WELL HSB 86A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 94.9 ft (28.93 m) below TOC  
 Water elevation: 167.5 ft (51.05 m) msl  
 pH: 6.3  
 Sp. conductance: 123 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 197 gal

Time: 12:48  
 Water temperature: 20.2°C  
 Air temperature: 23.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 41 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0520	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	6.58	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	111				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.711				0.500	µg/L	GE	EPA6020
0	Gross alpha	4.83E-10±1.01E-09	JU	L	I	2.26E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.32E-09±2.03E-09	U			4.23E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.25E-06±4.28E-07	J	I		6.53E-07	µCi/mL	GP	RADA-002

## WELL HSB 86B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 43.86 ft (13.37 m) below TOC  
 Water elevation: 218.04 ft (66.46 m) msl  
 pH: 7.2  
 Sp. conductance: 202 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 167 gal

Time: 13:09  
 Water temperature: 20.7°C  
 Air temperature: 24.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 81 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	7.36	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	181				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.157	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	5.95E-10±1.29E-09	JU	L	I	2.97E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.85E-09±2.37E-09	U			4.97E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.20E-07±3.95E-07	U			6.64E-07	µCi/mL	GP	RADA-002

## WELL HSB 86C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 44 ft (13.41 m) below TOC  
 Water elevation: 218.9 ft (66.72 m) msl  
 pH: 5.1  
 Sp. conductance: 235 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 54 gal

Time: 15:07  
 Water temperature: 20.5°C  
 Air temperature: 26.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.183	J	I		0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	0.660	J	I		1.60	µg/L	WA	EPA6010B
0	Beryllium, total recoverable	0.720	J	I		1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.280				0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.348	J	I		0.700	µg/L	WA	EPA7470A
2	Nitrate-nitrite as nitrogen	22,300			X	1,250	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	23,900				1,000	µg/L	WA	EPA353.2
0	pH	5.14	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.49	J	Q		0.100	pH	WA	EPA9040B
0	pH	5.39	J	Q		0.100	pH	WA	EPA9040B
0	Specific conductance	201				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	223				10.0	µS/cm	WA	EPA9050A
0	Specific conductance	225				10.0	µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.0600	JU		4	0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U			55.0	µg/L	WA	EPA6010B
0	Thallium, total recoverable	<55.0	U			55.0	µg/L	WA	EPA6010B
0	Gross alpha	4.94E-09±2.00E-09	J	I		1.78E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.82E-09±1.82E-09	J	I		1.80E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	4.44E-08±1.05E-08				1.88E-08	µCi/mL	ML	EPA900.0
2	Nonvolatile beta	5.82E-08±4.79E-09				3.48E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	5.81E-08±4.73E-09				3.24E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.28E-08±4.91E-09	U			1.33E-08	µCi/mL	ML	EPA900.0
2	Tritium	3.70E-03±7.12E-05				6.11E-06	µCi/mL	GP	RADA-002
2	Tritium	3.56E-03±1.24E-05				6.03E-07	µCi/mL	ML	RADA-002



**WELL HSB 86C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 44 ft (13.41 m) below TOC  
 Water elevation: 218.9 ft (66.72 m) msl  
 pH: 5.1  
 Sp. conductance: 235 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 54 gal

Time: 15:07  
 Water temperature: 20.5°C  
 Air temperature: 26.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.266				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.272				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	22,500				1,250	µg/L	GE	EPA353.1
0	pH	5.20	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	199				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.649				0.500	µg/L	GE	EPA6020
0	Gross alpha	3.17E-09±1.59E-09	J	I		1.78E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.30E-08±4.04E-09				3.10E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.77E-03±7.37E-05				6.24E-06	µCi/mL	GP	RADA-002

**WELL HSB 86D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/01/01  
 Depth to water: 44.1 ft (13.44 m) below TOC  
 Water elevation: 218.9 ft (66.72 m) msl  
 pH: 4.1  
 Sp. conductance: 222 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 46 gal

Time: 15:43  
 Water temperature: 23°C  
 Air temperature: 32.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.307				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.295				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	22,000				1,250	µg/L	GE	EPA353.1
0	pH	4.12	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	189				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.191	JU		4	0.500	µg/L	GE	EPA6020
1	Gross alpha	1.38E-08±3.64E-09				2.15E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.10E-06±1.98E-08				3.74E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.49E-03±4.88E-05				4.91E-06	µCi/mL	GP	RADA-002

**WELL HSB100C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 33.95 ft (10.35 m) below TOC  
 Water elevation: 226.25 ft (68.96 m) msl  
 pH: 5.8  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 112 gal

Time: 8:48  
 Water temperature: 20.5°C  
 Air temperature: 13.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.133	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	150				50.0	µg/L	GE	EPA353.1
0	pH	5.52	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	23.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.73E-10±1.06E-09	JU	L	I	2.73E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-7.59E-11±2.03E-09	U			4.91E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.34E-06±5.08E-07				7.10E-07	µCi/mL	GP	RADA-002

**WELL HSB100D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 23.3 ft (7.1 m) below TOC  
 Water elevation: 236.8 ft (72.18 m) msl  
 pH: 5.5  
 Sp. conductance: 68 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 37 gal

Time: 8:34  
 Water temperature: 21.6°C  
 Air temperature: 12.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0430	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2,810				50.0	µg/L	GE	EPA353.1
0	pH	5.22	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	50.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.68E-09±1.90E-09	J	IL	I	2.18E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.38E-07±8.21E-09				4.21E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.57E-05±1.90E-06				7.10E-07	µCi/mL	GP	RADA-002

**WELL HSB101C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 33.49 ft (10.21 m) below TOC  
 Water elevation: 225.01 ft (68.58 m) msl  
 pH: 5.7  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 85 gal

Time: 9:44  
 Water temperature: 20.8°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.587	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	980				50.0	µg/L	GE	EPA353.1
0	pH	5.64	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	32.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.69E-10±1.30E-09	JU	L	I	3.25E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-4.82E-10±2.15E-09	U			5.28E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.46E-05±8.64E-07				7.07E-07	µCi/mL	GP	RADA-002

**WELL HSB101D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 25.82 ft (7.87 m) below TOC  
 Water elevation: 232.88 ft (70.98 m) msl  
 pH: 7.4  
 Sp. conductance: 484 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 13:14  
 Water temperature: 23.8°C  
 Air temperature: 27.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 127 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0370	JU		4	0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	6.26				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	28,300				1,250	µg/L	GE	EPA353.1
0	pH	7.13	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	412				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	5.79E-09±2.42E-09	J	I		2.51E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.12E-08±6.06E-09				4.16E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.04E-03±8.75E-06				9.20E-07	µCi/mL	GP	RADA-002



**WELL HSB102C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 34.9 ft (10.64 m) below TOC  
 Water elevation: 224.1 ft (68.31 m) msl  
 pH: 5.8  
 Sp. conductance: 154 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 88 gal

Time: 10:33  
 Water temperature: 20.1°C  
 Air temperature: 13.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.502	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.616				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	14.400				500	µg/L	GE	EPA353.1
0	pH	5.70	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	116				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.251	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	1.39E-09±1.50E-09	JU	L	I	2.94E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.24E-09±2.70E-09	J	I		4.78E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.35E-04±2.70E-06				8.17E-07	µCi/mL	GP	RADA-002

**WELL HSB102D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 27.9 ft (8.5 m) below TOC  
 Water elevation: 230.7 ft (70.32 m) msl  
 pH: 3.9  
 Sp. conductance: 201 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 13:40  
 Water temperature: 22.5°C  
 Air temperature: 29.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.390				0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	4.07				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	17,000				1,250	µg/L	GE	EPA353.1
1	pH	3.87	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	171				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
2	Gross alpha	6.59E-08±6.99E-09				1.63E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.48E-06±2.29E-08				3.19E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.87E-03±5.53E-05				5.25E-06	µCi/mL	GP	RADA-002

**WELL HSB103C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 24.48 ft (7.46 m) below TOC  
 Water elevation: 222.92 ft (67.95 m) msl  
 pH: 4.9  
 Sp. conductance: 209 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 93 gal

Time: 11:29  
 Water temperature: 20°C  
 Air temperature: 17.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.499	J	K	C	0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.25				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	21,400				1,000	µg/L	GE	EPA353.1
2	Nitrate-nitrite as nitrogen	21,800				1,000	µg/L	GE	EPA353.1
0	pH	4.78	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	156				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.584				0.500	µg/L	GE	EPA6020
0	Gross alpha	5.46E-09±2.38E-09	J	IL	I	3.00E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.68E-08±3.34E-09				4.39E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.16E-04±8.20E-06				1.40E-06	µCi/mL	GP	RADA-002

**WELL HSB103D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 23.5 ft (7.16 m) below TOC  
 Water elevation: 224.1 ft (68.31 m) msl  
 pH: 3.8  
 Sp. conductance: 115 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 8:50  
 Water temperature: 19.2°C  
 Air temperature: 14.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.105	J	I		0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	2.04				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	10,600				250	µg/L	GE	EPA353.1
0	pH	4.49	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	102				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0680	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	5.25E-09±2.49E-09	J	I		2.00E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	3.31E-07±1.25E-08				4.00E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.63E-04±1.89E-05				2.80E-06	µCi/mL	GP	RADA-002

**WELL HSB104C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Depth to water: 28.35 ft (8.64 m) below TOC  
 Water elevation: 219.55 ft (66.92 m) msl  
 pH: 6.6  
 Sp. conductance: 127 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 88 gal

Time: 12:28  
 Water temperature: 19.1°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	7,800				250	µg/L	GE	EPA353.1
0	pH	6.47	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.45	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	93.7				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	93.6				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.41E-10±1.40E-09	JU	L	I	3.36E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.35E-08±3.35E-09				5.30E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.02E-04±4.01E-06				1.01E-06	µCi/mL	GP	RADA-002

**WELL HSB104D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 29.21 ft (8.9 m) below TOC  
 Water elevation: 218.59 ft (66.63 m) msl  
 pH: 4.3  
 Sp. conductance: 101 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 24 gal

Time: 9:41  
 Water temperature: 18.8°C  
 Air temperature: 18.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.367				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.18				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	8,500				250	µg/L	GE	EPA353.1
0	pH	4.23	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	86.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
1	Gross alpha	1.24E-08±3.44E-09				1.83E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.93E-07±1.77E-08				3.84E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.96E-04±1.75E-05				2.69E-06	µCi/mL	GP	RADA-002



## WELL HSB105C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
Depth to water: 31.09 ft (9.48 m) below TOC  
Water elevation: 218.41 ft (66.57 m) msl  
pH: 6  
Sp. conductance: 90 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 102 gal

Time: 13:19  
Water temperature: 19.5°C  
Air temperature: 13.4°C  
Total alkalinity (as CaCO<sub>3</sub>): 21 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0840	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5.150				250	µg/L	GE	EPA353.1
1	Nitrate-nitrite as nitrogen	5.250				250	µg/L	GE	EPA353.1
0	pH	6.12	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.11	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	67.8				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	67.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.444	J	I		0.500	µg/L	GE	EPA6020
0	Gross alpha	7.79E-10±1.06E-09	JU	L	I	2.05E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	-6.23E-10±7.70E-10	JU	L	I	2.82E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.44E-09±2.23E-09	U			4.43E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.55E-09±2.23E-09	U			4.71E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.10E-04±2.21E-06				7.32E-07	µCi/mL	GP	RADA-002

## WELL HSB105D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
Depth to water: 27.41 ft (8.35 m) below TOC  
Water elevation: 222.09 ft (67.69 m) msl  
pH: 4.5  
Sp. conductance: 163 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 17 gal

Time: 11:14  
Water temperature: 20.3°C  
Air temperature: 22°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.194	J	I		0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	5.36				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	14.200				500	µg/L	GE	EPA353.1
0	pH	4.15	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	126				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.91E-09±2.70E-09	J	I		3.37E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	9.80E-08±6.66E-09				4.23E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.84E-03±3.56E-05				4.26E-06	µCi/mL	GP	RADA-002
2	Tritium	1.89E-03±3.67E-05				4.39E-06	µCi/mL	GP	RADA-002

## WELL HSB106C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
Depth to water: 22.51 ft (6.86 m) below TOC  
Water elevation: 230.39 ft (70.22 m) msl  
pH: 5.9  
Sp. conductance: 82 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 107 gal

Time: 14:09  
Water temperature: 19.8°C  
Air temperature: 15.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.287	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.340				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5.600				250	µg/L	GE	EPA353.1
0	pH	5.94	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	62.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-1.76E-10±6.31E-10	JU	L	I	2.17E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.51E-09±2.17E-09	U			4.26E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.23E-04±2.47E-06				7.77E-07	µCi/mL	GP	RADA-002

ESH-EMS-20010585

## WELL HSB106D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
Depth to water: 29 ft (8.84 m) below TOC  
Water elevation: 223.9 ft (68.25 m) msl  
pH: 4.7  
Sp. conductance: 86 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 27 gal

Time: 12:40  
Water temperature: 19.6°C  
Air temperature: 23.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.122	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.510				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	6.350				250	µg/L	GE	EPA353.1
0	pH	4.46	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	70.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.94E-09±2.50E-09	J	I		2.98E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.54E-07±8.18E-09				4.27E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.40E-04±2.85E-06				1.11E-06	µCi/mL	GP	RADA-002

## WELL HSB107C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
Depth to water: 44.37 ft (13.52 m) below TOC  
Water elevation: 217.23 ft (66.21 m) msl  
pH: 6.5  
Sp. conductance: 151 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 90 gal

Time: 15:09  
Water temperature: 19.3°C  
Air temperature: 16.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 29 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.527	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	9.000				250	µg/L	GE	EPA353.1
0	pH	6.47	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	112				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.10E-11±8.38E-10	JU	L	I	2.45E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	9.13E-09±2.76E-09	J	I		4.34E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.00E-04±7.90E-06				1.44E-06	µCi/mL	GP	RADA-002

## WELL HSB107D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
Depth to water: 40.71 ft (12.41 m) below TOC  
Water elevation: 221.59 ft (67.54 m) msl  
pH: 5.1  
Sp. conductance: 100 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 17 gal

Time: 14:06  
Water temperature: 20.6°C  
Air temperature: 25.8°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0610	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.389				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	8.700				250	µg/L	GE	EPA353.1
0	pH	4.93	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	78.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	5.19E-09±2.52E-09	J	I		2.80E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.62E-07±1.04E-08				4.00E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.57E-04±1.88E-05				3.00E-06	µCi/mL	GP	RADA-002

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**WELL HSB108C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 49.76 ft (15.17 m) below TOC  
 Water elevation: 216.44 ft (65.97 m) msl  
 pH: 6.9  
 Sp. conductance: 115 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 49 gal

Time: 8:34  
 Water temperature: 20.5°C  
 Air temperature: 14.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 42 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0480	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.090				50.0	µg/L	GE	EPA353.1
0	pH	6.74	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	106				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	6.49E-10±8.88E-10	U			1.51E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.14E-08±3.54E-09				4.07E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.48E-05±1.67E-06				6.51E-07	µCi/mL	GP	RADA-002

**WELL HSB108D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 46.6 ft (14.2 m) below TOC  
 Water elevation: 219.7 ft (66.97 m) msl  
 pH: 4.7  
 Sp. conductance: 96 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 11:37  
 Water temperature: 22.4°C  
 Air temperature: 19.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.309				0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	2.07				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	7.450				250	µg/L	GE	EPA353.1
0	pH	5.22	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	161				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.145	JU		4	0.500	µg/L	GE	EPA6020
2	Gross alpha	2.72E-08±6.27E-09				3.49E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.34E-06±3.13E-08	J	L	I	6.86E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.22E-04±4.41E-06				6.82E-07	µCi/mL	GP	RADA-002

**WELL HSB109C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 45.06 ft (13.73 m) below TOC  
 Water elevation: 216.54 ft (66 m) msl  
 pH: 6.1  
 Sp. conductance: 46 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 68 gal

Time: 9:34  
 Water temperature: 19.7°C  
 Air temperature: 15.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0940	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.710				50.0	µg/L	GE	EPA353.1
0	pH	5.88	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	43.1				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.40E-10±8.09E-10	U			2.19E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-5.17E-12±1.66E-09	U			4.04E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.11E-05±1.11E-06				6.61E-07	µCi/mL	GP	RADA-002

**WELL HSB109D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 43.8 ft (13.35 m) below TOC  
 Water elevation: 217.4 ft (66.26 m) msl  
 pH: 4.9  
 Sp. conductance: 30 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 12:11  
 Water temperature: 22.8°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.263				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.109	J	I		0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.470				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1.470				50.0	µg/L	GE	EPA353.1
0	pH	4.46	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.50	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	70.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.440	J	I		0.500	µg/L	GE	EPA6020
2	Gross alpha	1.79E-08±4.02E-09				2.67E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.22E-07±7.75E-09				4.06E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.38E-04±6.71E-06				1.61E-06	µCi/mL	GP	RADA-002

**WELL HSB110C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 39.15 ft (11.93 m) below TOC  
 Water elevation: 216.55 ft (66.01 m) msl  
 pH: 5.4  
 Sp. conductance: 24 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 80 gal

Time: 11:15  
 Water temperature: 20°C  
 Air temperature: 19.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.162	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	640				50.0	µg/L	GE	EPA353.1
0	pH	5.33	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	21.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	3.88E-10±8.92E-10	U			2.12E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.19E-10±2.08E-09	U			4.88E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.09E-05±7.35E-07				6.79E-07	µCi/mL	GP	RADA-002
1	Tritium	1.10E-05±7.29E-07				6.66E-07	µCi/mL	GP	RADA-002

**WELL HSB110D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: 38.76 ft (11.81 m) below TOC  
 Water elevation: 216.84 ft (66.09 m) msl  
 pH: 4.5  
 Sp. conductance: 70 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 11:01  
 Water temperature: 19.9°C  
 Air temperature: 19.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.127	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.223				0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	4.950				150	µg/L	GE	EPA353.1
0	pH	4.28	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	63.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.76E-09±1.99E-09	U			3.50E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.98E-08±5.35E-09				5.72E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.31E-04±1.63E-05				2.11E-06	µCi/mL	GP	RADA-002



## WELL HSB111C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 39 ft (11.89 m) below TOC  
Water elevation: 217 ft (66.14 m) msl  
pH: 5.4  
Sp. conductance: 33 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 109 gal

Time: 12:27  
Water temperature: 21.1°C  
Air temperature: 22.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0970	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.790		Q		50.0	µg/L	GE	EPA353.1
0	pH	5.32	J			0.100	pH	GE	EPA9040B
0	Specific conductance	30.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	3.19E-10±1.16E-09	U			2.82E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.83E-09±2.24E-09	U			4.64E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.68E-04±3.34E-06				8.98E-07	µCi/mL	GP	RADA-002

## WELL HSB111D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 40.71 ft (12.41 m) below TOC  
Water elevation: 215.29 ft (65.62 m) msl  
pH: 5.4  
Sp. conductance: 126 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 49 gal

Time: 13:07  
Water temperature: 21.4°C  
Air temperature: 25.1°C  
Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.317	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	15,800		Q		500	µg/L	GE	EPA353.1
0	pH	5.26	J			0.100	pH	GE	EPA9040B
0	Specific conductance	119				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.18E-09±1.44E-09	J	I		1.53E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	2.78E-08±3.97E-09				4.04E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.10E-03±4.08E-05				3.52E-06	µCi/mL	GP	RADA-002

## WELL HSB111E

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
Depth to water: 40.25 ft (12.27 m) below TOC  
Water elevation: 215.65 ft (65.73 m) msl  
pH: 4.2  
Sp. conductance: 108 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 4 gal  
The well went dry during purging.

Time: 8:27  
Water temperature: 17.6°C  
Air temperature: 12.6°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.124	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.877				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	9,800		Q		500	µg/L	GE	EPA353.1
0	pH	4.33	J			0.100	pH	GE	EPA9040B
0	Specific conductance	75.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.238	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	5.16E-09±3.94E-09	U			5.59E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.10E-08±1.09E-08				1.18E-08	µCi/mL	GP	EPA900.0
2	Tritium	1.58E-03±3.06E-05				3.02E-06	µCi/mL	GP	RADA-002

## WELL HSB112C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 36.9 ft (11.25 m) below TOC  
Water elevation: 218 ft (66.45 m) msl  
pH: 6.4  
Sp. conductance: 63 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 136 gal

Time: 14:41  
Water temperature: 20.7°C  
Air temperature: 23.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 24 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.127	J	IK	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,140		Q		50.0	µg/L	GE	EPA353.1
0	pH	6.36	J			0.100	pH	GE	EPA9040B
0	Specific conductance	54.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.77E-10±1.13E-09	U			2.90E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.95E-09±2.32E-09	U			4.79E-09	µCi/mL	GP	EPA900.0
2	Tritium	8.34E-05±1.78E-06				6.87E-07	µCi/mL	GP	RADA-002

## WELL HSB112D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
Depth to water: 38.26 ft (11.66 m) below TOC  
Water elevation: 216.84 ft (66.09 m) msl  
pH: 5.7  
Sp. conductance: 57 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 55 gal

Time: 14:58  
Water temperature: 20.5°C  
Air temperature: 23.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0370	JU	I	4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.110	J			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	3,930		Q		150	µg/L	GE	EPA353.1
0	pH	5.77	J			0.100	pH	GE	EPA9040B
0	Specific conductance	52.8				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	5.17E-10±1.23E-09	U			2.84E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.43E-09±2.30E-09	U			4.65E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.58E-04±1.29E-05				1.91E-06	µCi/mL	GP	RADA-002

## WELL HSB112E

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
Depth to water: 38.52 ft (11.74 m) below TOC  
Water elevation: 216.58 ft (66.01 m) msl  
pH: 5.7  
Sp. conductance: 31 µS/cm  
Turbidity: 5 NTU  
Water evacuated from the well prior to sampling: 4 gal  
The well went dry during purging.

Time: 9:53  
Water temperature: 17.2°C  
Air temperature: 13.5°C  
Total alkalinity (as CaCO<sub>3</sub>): 35 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.137	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,610		Q		50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1,640				50.0	µg/L	GE	EPA353.1
0	pH	5.31	J			0.100	pH	GE	EPA9040B
0	Specific conductance	21.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.685				0.500	µg/L	GE	EPA6020
0	Gross alpha	4.84E-10±1.62E-09	U			3.97E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.08E-08±6.17E-09	U			1.18E-08	µCi/mL	GP	EPA900.0
2	Tritium	2.71E-04±5.36E-06				1.13E-06	µCi/mL	GP	RADA-002



**WELL HSB113C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 43 ft (13.11 m) below TOC  
 Water elevation: 218 ft (66.45 m) msl  
 pH: 5.4  
 Sp. conductance: 65 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 9:56  
 Water temperature: 19°C  
 Air temperature: 13.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.399				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	6.600				250	µg/L	GE	EPA353.1
1	Nitrate-nitrite as nitrogen	6.500				250	µg/L	GE	EPA353.1
0	pH	4.64	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.63	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	51.6				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.435	J	I		0.500	µg/L	GE	EPA6020
0	Gross alpha	1.59E-11±2.64E-09	U			7.18E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	-1.26E-10±2.44E-09	U			6.92E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.67E-08±6.91E-09	J	I		1.21E-08	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.56E-08±7.33E-09	J	I		1.37E-08	µCi/mL	GP	EPA900.0
2	Tritium	5.68E-04±1.12E-05				1.70E-06	µCi/mL	GP	RADA-002

**WELL HSB114C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 46.1 ft (14.05 m) below TOC  
 Water elevation: 217.7 ft (66.36 m) msl  
 pH: 5.1  
 Sp. conductance: 138 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 10:38  
 Water temperature: 18.3°C  
 Air temperature: 14.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.677				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	14.800				500	µg/L	GE	EPA353.1
0	pH	4.71	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	104				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.358	J	I		0.500	µg/L	GE	EPA6020
0	Gross alpha	2.02E-09±3.61E-09	U			7.97E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.78E-08±9.61E-09				1.52E-08	µCi/mL	GP	EPA900.0
2	Tritium	1.36E-03±6.80E-06				6.03E-07	µCi/mL	GP	RADA-002

**WELL HSB114D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/26/01  
 Depth to water: 45.7 ft (13.93 m) below TOC  
 Water elevation: 218.3 ft (66.54 m) msl  
 pH: 4.4  
 Sp. conductance: 373 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 9:33  
 Water temperature: 19.6°C  
 Air temperature: 17.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.253				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	38.000				1,250	µg/L	GE	EPA353.1
1	pH	3.95	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	295				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.100	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	3.26E-08±1.09E-08				6.74E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.12E-06±4.05E-08				1.62E-08	µCi/mL	GP	EPA900.0
2	Tritium	4.95E-03±9.66E-05				7.41E-06	µCi/mL	GP	RADA-002

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**WELL HSB115C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 49.8 ft (15.18 m) below TOC  
 Water elevation: 219.5 ft (66.9 m) msl  
 pH: 6  
 Sp. conductance: 112 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 11:21  
 Water temperature: 19.9°C  
 Air temperature: 15.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.191	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	9.600				250	µg/L	GE	EPA353.1
0	pH	5.80	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	102				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0690	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	4.04E-09±4.23E-09	U			8.14E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.87E-08±9.51E-09				1.47E-08	µCi/mL	GP	EPA900.0
2	Tritium	9.30E-04±5.64E-06				6.09E-07	µCi/mL	GP	RADA-002

**WELL HSB115D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 49.55 ft (15.1 m) below TOC  
 Water elevation: 219.55 ft (66.92 m) msl  
 pH: 4  
 Sp. conductance: 276 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 10:29  
 Water temperature: 23°C  
 Air temperature: 13.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.485				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	29.300				1,250	µg/L	GE	EPA353.1
0	pH	4.18	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	210				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	210				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.809				0.500	µg/L	GE	EPA6020
2	Gross alpha	5.33E-08±1.18E-08				4.91E-09	µCi/mL	GP	EPA900.0
2	Gross alpha	2.62E-08±6.64E-09				3.15E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.63E-06±4.76E-08				8.95E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.34E-06±3.07E-08				5.85E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.03E-03±7.86E-05				6.46E-06	µCi/mL	GP	RADA-002
2	Tritium	4.22E-03±8.16E-05				6.63E-06	µCi/mL	GP	RADA-002

**WELL HSB116C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 36 ft (10.97 m) below TOC  
 Water elevation: 221.5 ft (67.51 m) msl  
 pH: 5.9  
 Sp. conductance: 53 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 50 gal

Time: 12:03  
 Water temperature: 19.3°C  
 Air temperature: 18°C  
 Total alkalinity (as CaCO<sub>3</sub>): 46 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0340	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	4.450				250	µg/L	GE	EPA353.1
0	pH	5.62	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	49.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.51E-10±2.40E-09	U			7.08E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	9.01E-09±6.26E-09	U			1.26E-08	µCi/mL	GP	EPA900.0
2	Tritium	3.09E-04±3.22E-06				5.92E-07	µCi/mL	GP	RADA-002

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**WELL HSB116D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 35.3 ft (10.76 m) below TOC  
 Water elevation: 221.5 ft (67.51 m) msl  
 pH: 4.8  
 Sp. conductance: 73 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 11:07  
 Water temperature: 21.4°C  
 Air temperature: 25.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.184	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	6.900				250	µg/L	GE	EPA353.1
1	Nitrate-nitrite as nitrogen	6.750				250	µg/L	GE	EPA353.1
0	pH	4.45	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.44	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	78.3				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.137	JU		4	0.500	µg/L	GE	EPA6020
1	Gross alpha	9.87E-09±3.03E-09				2.76E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.43E-07±1.73E-08				4.81E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.49E-05±1.05E-06				8.23E-07	µCi/mL	GP	RADA-002

**WELL HSB117A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 72 ft (21.95 m) below TOC  
 Water elevation: 165.3 ft (50.38 m) msl  
 pH: 7  
 Sp. conductance: 138 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 44 gal

Time: 13:16  
 Water temperature: 19.1°C  
 Air temperature: 18.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 95 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.48	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	112				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	112				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0270	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	5.24E-09±4.14E-09	U			6.46E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-4.44E-09±4.55E-09	U			1.26E-08	µCi/mL	GP	EPA900.0
0	Tritium	-1.28E-07±3.29E-07	U			5.87E-07	µCi/mL	GP	RADA-002

**WELL HSB117C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 19.7 ft (6 m) below TOC  
 Water elevation: 217.7 ft (66.36 m) msl  
 pH: 4.6  
 Sp. conductance: 427 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 81 gal

Time: 15:09  
 Water temperature: 20.7°C  
 Air temperature: 27.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.508				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.415				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	48.000				1.250	µg/L	GE	EPA353.1
0	pH	4.53	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	359				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	6.66E-09±2.27E-09				1.66E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.18E-08±5.49E-09				3.12E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.96E-03±1.40E-05				8.16E-07	µCi/mL	GP	RADA-002

**WELL HSB117D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 16 ft (4.88 m) below TOC  
 Water elevation: 221.6 ft (67.54 m) msl  
 pH: 5.4  
 Sp. conductance: 24 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 13:42  
 Water temperature: 21.1°C  
 Air temperature: 18.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0510	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	970				50.0	µg/L	GE	EPA353.1
0	pH	4.94	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	16.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.95E-09±3.09E-09	U			6.64E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-5.31E-09±5.19E-09	U			1.42E-08	µCi/mL	GP	EPA900.0
1	Tritium	1.33E-05±7.82E-07				6.51E-07	µCi/mL	GP	RADA-002
1	Tritium	1.37E-05±8.01E-07				6.68E-07	µCi/mL	GP	RADA-002

**WELL HSB118A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 80.79 ft (24.63 m) below TOC  
 Water elevation: 166.51 ft (50.75 m) msl  
 pH: 7.2  
 Sp. conductance: 2 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 111 gal

Time: 14:57  
 Water temperature: 21.5°C  
 Air temperature: 35.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 58 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		X	1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	1.570				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	1.690				40.0	µg/L	WA	EPA353.2
0	pH	7.11	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.87	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	136				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	140				8.90	µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.480	U	V		0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		X	55.0	µg/L	WA	EPA6010B
0	Gross alpha	2.92E-10±1.20E-09	U			2.97E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.33E-09±3.07E-09	U			1.23E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.69E-09±2.46E-09	U			5.26E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.01E-08±4.14E-09	U			1.42E-08	µCi/mL	ML	RADA-001
2	Tritium	3.57E-04±3.40E-06				5.63E-07	µCi/mL	GP	RADA-002
2	Tritium	3.65E-04±3.93E-06				5.52E-07	µCi/mL	ML	RADA-002



## WELL HSB118A Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
Depth to water: 80.79 ft (24.63 m) below TOC  
Water elevation: 166.51 ft (50.75 m) msl  
pH: 7.2  
Sp. conductance: 2 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 111 gal

Time: 14:57  
Water temperature: 21.5°C  
Air temperature: 35.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 58 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.650				50.0	µg/L	GE	EPA353.1
0	pH	6.96	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	137				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0890	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	1.08E-09±1.37E-09	U			2.77E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.43E-09±2.52E-09	J	I		4.72E-09	µCi/mL	GP	EPA900.0
2	Tritium	3.64E-04±3.52E-06				5.90E-07	µCi/mL	GP	RADA-002

## WELL HSB119A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
Depth to water: 91.57 ft (27.91 m) below TOC  
Water elevation: 165.53 ft (50.45 m) msl  
pH: 6  
Sp. conductance: 147 µS/cm  
Turbidity: 2 NTU  
Water evacuated from the well prior to sampling: 8 gal  
The well went dry during purging.

Time: 10:21  
Water temperature: 18.4°C  
Air temperature: 13.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.188	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5.750				250	µg/L	GE	EPA353.1
0	pH	6.33	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	80.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.103	JU		4	0.500	µg/L	GE	EPA6020
2	Gross alpha	1.60E-08±7.07E-09	J	I		9.54E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.05E-08±7.92E-09	J	I		1.41E-08	µCi/mL	GP	EPA900.0
2	Tritium	4.63E-04±9.11E-06				1.54E-06	µCi/mL	GP	RADA-002

## WELL HSB120A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
Depth to water: 102.77 ft (31.32 m) below TOC  
Water elevation: 165.43 ft (50.42 m) msl  
pH: 7.3  
Sp. conductance: 203 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 108 gal

Time: 12:02  
Water temperature: 22°C  
Air temperature: 34.1°C  
Total alkalinity (as CaCO<sub>3</sub>): 97 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	7.22	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	170				1.00	µS/cm	GE	EPA9050A
1	Thallium, total recoverable	1.26				0.500	µg/L	GE	EPA6020
0	Gross alpha	7.77E-10±1.14E-09	U			2.42E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.33E-10±2.15E-09	U			5.00E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.02E-07±3.31E-07	U			5.72E-07	µCi/mL	GP	RADA-002

## WELL HSB121A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/06/01  
Depth to water: 104.07 ft (31.72 m) below TOC  
Water elevation: 170.53 ft (51.98 m) msl  
pH: 7.4  
Sp. conductance: 225 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 127 gal

Time: 13:36  
Water temperature: 20.6°C  
Air temperature: 27°C  
Total alkalinity (as CaCO<sub>3</sub>): 46 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.136	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.50	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	191				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.68E-09±3.42E-09	U			7.80E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.39E-09±5.57E-09	U			1.28E-08	µCi/mL	GP	EPA900.0
0	Tritium	1.59E-07±3.53E-07	U			6.05E-07	µCi/mL	GP	RADA-002

## WELL HSB122A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
Depth to water: 101.34 ft (30.89 m) below TOC  
Water elevation: 170.26 ft (51.9 m) msl  
pH: 7  
Sp. conductance: 196 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 130 gal

Time: 9:47  
Water temperature: 21°C  
Air temperature: 24.5°C  
Total alkalinity (as CaCO<sub>3</sub>): 78 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.115	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	6.98	J	Q		0.100	pH	GE	EPA9040B
0	pH	7.01	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	176				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	177				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.843	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.12E-12±8.97E-10	U			2.52E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.44E-10±1.94E-09	U			4.54E-09	µCi/mL	GP	EPA900.0
0	Tritium	-5.69E-08±3.14E-07	U			5.54E-07	µCi/mL	GP	RADA-002

## WELL HSB123A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
Depth to water: 93.93 ft (28.63 m) below TOC  
Water elevation: 171.77 ft (52.36 m) msl  
pH: 11  
Sp. conductance: 761 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 1 gal  
The well went dry during purging.

Time: 14:47  
Water temperature: 19.7°C  
Air temperature: 35.5°C  
Total alkalinity (as CaCO<sub>3</sub>): 166 mg/L  
Phenolphthalein alkalinity: 161 mg/L  
Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
2	pH	11.3	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	470				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.95E-09±2.65E-09	U			4.86E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.12E-08±4.29E-09	J	I		7.77E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.78E-07±4.27E-07	U			7.24E-07	µCi/mL	GP	RADA-002
0	Tritium	4.48E-07±4.39E-07	U			7.31E-07	µCi/mL	GP	RADA-002



**WELL HSB124AR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 96 ft (29.26 m) below TOC  
 Water elevation: 170.8 ft (52.06 m) msl  
 pH: 7  
 Sp. conductance: 213 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 139 gal

Time: 14:11  
 Water temperature: 21.9°C  
 Air temperature: 37.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 39 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0970	J	I		0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		X	1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	<20.0	U			20.0	µg/L	WA	EPA353.2
0	pH	7.41	J	Q		0.100	pH	GE	EPA9040B
0	pH	7.32	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	142				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	205				8.90	µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.0450	U		6	0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		X	55.0	µg/L	WA	EPA6010B
0	Gross alpha	2.04E-09±3.06E-09	U			6.73E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	9.27E-09±4.57E-09	U			1.17E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.02E-09±3.02E-09	U			6.99E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.16E-09±3.91E-09	U			1.38E-08	µCi/mL	ML	RADA-001
0	Tritium	7.40E-08±4.17E-07	U			7.24E-07	µCi/mL	GP	RADA-002
0	Tritium	1.18E-06±3.75E-07	J	I		5.40E-07	µCi/mL	ML	RADA-002

**WELL HSB124AR Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 96 ft (29.26 m) below TOC  
 Water elevation: 170.8 ft (52.06 m) msl  
 pH: 7  
 Sp. conductance: 213 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 139 gal

Time: 14:11  
 Water temperature: 21.9°C  
 Air temperature: 37.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 39 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0780	J	I		0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	21.9				1.00	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	6.98	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	149				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0270	U		6	0.500	µg/L	GE	EPA6020
0	Gross alpha	4.55E-10±1.74E-09	U			4.36E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.81E-09±3.21E-09	U			6.69E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.94E-07±4.45E-07	U			7.45E-07	µCi/mL	GP	RADA-002

**WELL HSB125C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 9.06 ft (2.76 m) below TOC  
 Water elevation: 222.84 ft (67.92 m) msl  
 pH: 5.2  
 Sp. conductance: 22 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 120 gal

Time: 11:26  
 Water temperature: 19.9°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0530	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	90.0				50.0	µg/L	GE	EPA353.1
0	pH	5.38	J	Q		0.100	pH	GE	EPA9040B

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Well HSB125C collected on 04/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Specific conductance	20.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.156	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	2.98E-11±9.12E-10	U			2.52E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.03E-09±1.92E-09	U			4.34E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.88E-06±4.11E-07	U			5.74E-07	µCi/mL	GP	RADA-002

**WELL HSB125D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 11.27 ft (3.44 m) below TOC  
 Water elevation: 220.43 ft (67.19 m) msl  
 pH: 5.4  
 Sp. conductance: 97 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 10:47  
 Water temperature: 18.4°C  
 Air temperature: 25°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0760	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.374				0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	3.960				150	µg/L	GE	EPA353.1
0	pH	5.30	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	86.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.128	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	7.71E-10±9.02E-10	U			1.59E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.36E-08±3.01E-09	U			4.12E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.06E-05±1.43E-06				5.63E-07	µCi/mL	GP	RADA-002

**WELL HSB126C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 8.47 ft (2.58 m) below TOC  
 Water elevation: 204.13 ft (62.22 m) msl  
 pH: 7.5  
 Sp. conductance: 279 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 48 gal

Time: 15:19  
 Water temperature: 18.7°C  
 Air temperature: 22.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 81 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	13,600				500	µg/L	GE	EPA353.1
0	pH	7.75	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	203				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.33E-09±3.64E-09	U			8.69E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	9.26E-09±6.07E-09	U			1.19E-08	µCi/mL	GP	EPA900.0
2	Tritium	4.69E-04±3.88E-06				5.69E-07	µCi/mL	GP	RADA-002

**WELL HSB126D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 7.4 ft (2.26 m) below TOC  
 Water elevation: 205.3 ft (62.58 m) msl  
 pH: 4.9  
 Sp. conductance: 233 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 21 gal

Time: 14:55  
 Water temperature: 25.2°C  
 Air temperature: 23.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.356				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.87				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	25,800				1,250	µg/L	GE	EPA353.1

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Well HSB126D collected on 04/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	pH	4.87	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	181				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.92E-09±2.97E-09	U			4.62E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.35E-08±6.31E-09	J	I		1.14E-08	µCi/mL	GP	EPA900.0
2	Tritium	1.27E-03±6.35E-06				5.65E-07	µCi/mL	GP	RADA-002

**WELL HSB127C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/06/01  
 Depth to water: 16.8 ft (5.12 m) below TOC  
 Water elevation: 208.9 ft (63.67 m) msl  
 pH: 7.3  
 Sp. conductance: 252 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 112 gal

Time: 11:29  
 Water temperature: 19.5°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 39 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	9.050				250	µg/L	GE	EPA353.1
0	pH	7.80	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	204				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	9.81E-10±3.29E-09	U			8.01E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.38E-08±7.35E-09	U			1.42E-08	µCi/mL	GP	EPA900.0
2	Tritium	7.72E-04±5.13E-06				6.05E-07	µCi/mL	GP	RADA-002

**WELL HSB127D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/06/01  
 Depth to water: 14.49 ft (4.42 m) below TOC  
 Water elevation: 211.61 ft (64.5 m) msl  
 pH: 4.9  
 Sp. conductance: 49 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 10:59  
 Water temperature: 17.8°C  
 Air temperature: 23.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.119	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2.550				50.0	µg/L	GE	EPA353.1
0	pH	4.95	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	41.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.35E-09±3.65E-09	U			7.18E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	7.26E-08±1.12E-08				1.21E-08	µCi/mL	GP	EPA900.0
2	Tritium	3.37E-04±3.38E-06				6.00E-07	µCi/mL	GP	RADA-002

**WELL HSB129C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 11.13 ft (3.39 m) below TOC  
 Water elevation: 203.97 ft (62.17 m) msl  
 pH: 5.2  
 Sp. conductance: 321 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 86 gal

Time: 13:42  
 Water temperature: 19°C  
 Air temperature: 24.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	1.63				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.107	J	I		0.200	µg/L	GE	EPA7470A

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Well HSB129C collected on 05/08/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Nitrate-nitrite as nitrogen	34,300				1,250	µg/L	GE	EPA353.1
0	pH	5.44	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	261				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.174	JU	4		0.500	µg/L	GE	EPA6020
0	Gross alpha	4.52E-09±1.92E-09	J	I		1.84E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.77E-08±5.84E-09				3.44E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.87E-03±1.04E-05				9.29E-07	µCi/mL	GP	RADA-002

**WELL HSB129D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/06/01  
 Depth to water: 6.25 ft (1.91 m) below TOC  
 Water elevation: 208.45 ft (63.54 m) msl  
 pH: 5  
 Sp. conductance: 96 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 47 gal

Time: 12:26  
 Water temperature: 18.1°C  
 Air temperature: 26.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	8.700				250	µg/L	GE	EPA353.1
0	pH	4.97	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	66.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.55E-09±3.17E-09	U			7.31E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.08E-08±8.23E-09	J	I		1.51E-08	µCi/mL	GP	EPA900.0
2	Tritium	7.28E-04±1.43E-05				2.01E-06	µCi/mL	GP	RADA-002

**WELL HSB131C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 7.92 ft (2.41 m) below TOC  
 Water elevation: 203.78 ft (62.11 m) msl  
 pH: 7.6  
 Sp. conductance: 209 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 85 gal

Time: 11:49  
 Water temperature: 18.9°C  
 Air temperature: 17.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 86 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	2.710				50.0	µg/L	GE	EPA353.1
0	pH	7.93	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	139				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0180	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.17E-10±2.91E-09	U			8.47E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.67E-09±5.78E-09	U			1.35E-08	µCi/mL	GP	EPA900.0
2	Tritium	1.15E-04±2.31E-06				7.38E-07	µCi/mL	GP	RADA-002

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**WELL HSB131D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/05/01  
 Depth to water: 6.44 ft (1.96 m) below TOC  
 Water elevation: 205.66 ft (62.69 m) msl  
 pH: 5.1  
 Sp. conductance: 27 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 12:03  
 Water temperature: 17.2°C  
 Air temperature: 18°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.109	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	180				50.0	µg/L	GE	EPA353.1
0	pH	5.04	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	18.4				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	18.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
1	Gross alpha	1.43E-08±6.17E-09	J	I		7.03E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.49E-09±5.29E-09	U			1.17E-08	µCi/mL	GP	EPA900.0
0	Tritium	5.35E-06±5.87E-07				6.75E-07	µCi/mL	GP	RADA-002

**WELL HSB133C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 25.17 ft (7.67 m) below TOC  
 Water elevation: 230.43 ft (70.24 m) msl  
 pH: 6  
 Sp. conductance: 34 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 96 gal

Time: 15:25  
 Water temperature: 22°C  
 Air temperature: 36.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.167	J	I		0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		X	1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	<30.0	U		6	50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	67.0				20.0	µg/L	WA	EPA353.2
0	pH	5.89	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.99	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	15.0				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	35.5				8.90	µS/cm	WA	EPA9050A
0	Specific conductance	35.3				8.90	µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		X	55.0	µg/L	WA	EPA6010B
0	Gross alpha	-2.95E-10±1.09E-09	U			3.50E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.50E-10±1.09E-09	U			2.88E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.12E-09±3.52E-09	U			1.65E-08	µCi/mL	ML	RADA-001
0	Gross alpha	3.15E-09±3.54E-09	U			1.65E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-6.77E-10±2.76E-09	U			6.87E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.72E-09±2.32E-09	U			6.39E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.22E-10±2.95E-09	U			1.48E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-4.15E-09±2.05E-09	JU			1.48E-08	µCi/mL	ML	RADA-001
0	Tritium	-1.21E-07±4.01E-07	U			7.11E-07	µCi/mL	GP	RADA-002
0	Tritium	6.13E-07±3.64E-07	J	I		5.78E-07	µCi/mL	ML	RADA-002
0	Tritium	4.62E-07±3.58E-07	U			5.84E-07	µCi/mL	ML	RADA-002

**WELL HSB133C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 25.17 ft (7.67 m) below TOC  
 Water elevation: 230.43 ft (70.24 m) msl  
 pH: 6  
 Sp. conductance: 34 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 96 gal

Time: 15:25  
 Water temperature: 22°C  
 Air temperature: 36.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.205				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	330				50.0	µg/L	GE	EPA353.1
0	pH	5.90	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	36.1				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.78E-10±1.34E-09	U			3.81E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-3.37E-12±2.48E-09	U			5.99E-09	µCi/mL	GP	EPA900.0
0	Tritium	-1.56E-07±3.88E-07	U			6.91E-07	µCi/mL	GP	RADA-002

**WELL HSB133D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 17.96 ft (5.47 m) below TOC  
 Water elevation: 237.34 ft (72.34 m) msl  
 pH: 5.6  
 Sp. conductance: 50 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 44 gal

Time: 14:48  
 Water temperature: 21.7°C  
 Air temperature: 37.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	310				50.0	µg/L	GE	EPA353.1
0	pH	5.51	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	122				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	7.32E-10±1.32E-09	U			2.88E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.76E-09±2.44E-09	U			6.39E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.31E-05±7.92E-07				6.70E-07	µCi/mL	GP	RADA-002

**WELL HSB134C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Depth to water: 18.21 ft (5.55 m) below TOC  
 Water elevation: 220.19 ft (67.11 m) msl  
 pH: 5.8  
 Sp. conductance: 48 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 114 gal

Time: 10:03  
 Water temperature: 19.3°C  
 Air temperature: 24.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0470	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,000				50.0	µg/L	GE	EPA353.1
0	pH	6.28	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	42.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.116	U	V		0.500	µg/L	GE	EPA6020
0	Gross alpha	8.50E-10±9.89E-10	U			1.81E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.58E-09±1.95E-09	U			3.97E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.65E-05±8.15E-07				5.86E-07	µCi/mL	GP	RADA-002



**WELL HSB134D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 19.6 ft (5.97 m) below TOC  
 Water elevation: 218.5 ft (66.6 m) msl  
 pH: 4.2  
 Sp. conductance: 158 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 13:59  
 Water temperature: 19.3°C  
 Air temperature: 28°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.391				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	1.21				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	14,800				250	µg/L	GE	EPA353.1
1	pH	3.94	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	122				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0810	JU		4	0.500	µg/L	GE	EPA6020
2	Gross alpha	1.81E-08±4.50E-09				2.32E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	1.33E-06±2.45E-08				4.16E-09	µCi/mL	GP	EPA900.0
2	Tritium	7.19E-04±1.42E-05				2.41E-06	µCi/mL	GP	RADA-002

**WELL HSB135C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 26 ft (7.92 m) below TOC  
 Water elevation: 206 ft (62.79 m) msl  
 pH: 8  
 Sp. conductance: 196 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 81 gal

Time: 11:03  
 Water temperature: 21.5°C  
 Air temperature: 23°C  
 Total alkalinity (as CaCO<sub>3</sub>): 93 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	250				50.0	µg/L	GE	EPA353.1
1	pH	8.00	J	Q		0.100	pH	GE	EPA9040B
1	pH	8.04	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	126				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	126				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.594				0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.82E-10±1.54E-09	U			4.74E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.60E-09±3.39E-09	U			7.19E-09	µCi/mL	GP	EPA900.0
0	Tritium	4.48E-06±5.57E-07				6.69E-07	µCi/mL	GP	RADA-002

**WELL HSB135D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 24.85 ft (7.57 m) below TOC  
 Water elevation: 207.45 ft (63.23 m) msl  
 pH: 5.7  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 10:34  
 Water temperature: 21.1°C  
 Air temperature: 23°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1,840				50.0	µg/L	GE	EPA353.1
0	pH	5.43	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	29.4				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.652				0.500	µg/L	GE	EPA6020
0	Gross alpha	2.32E-10±1.25E-09	U			3.25E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.73E-08±4.39E-09				6.44E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.39E-04±2.79E-06				8.58E-07	µCi/mL	GP	RADA-002

**WELL HSB136C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Depth to water: 16.04 ft (4.89 m) below TOC  
 Water elevation: 211.86 ft (64.58 m) msl  
 pH: 6  
 Sp. conductance: 346 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 74 gal

Time: 15:07  
 Water temperature: 20.3°C  
 Air temperature: 29.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.548				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	37,000				1,250	µg/L	GE	EPA353.1
0	pH	6.15	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	1,630				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0960	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	3.56E-09±1.92E-09	J	I		2.35E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.00E-08±5.65E-09				3.68E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.46E-03±1.34E-05				8.07E-07	µCi/mL	GP	RADA-002

**WELL HSB136D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 13.2 ft (4.02 m) below TOC  
 Water elevation: 214.8 ft (65.47 m) msl  
 pH: 4.5  
 Sp. conductance: 70 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 13:22  
 Water temperature: 20.4°C  
 Air temperature: 31.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.241				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.552				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5,350				250	µg/L	GE	EPA353.1
0	pH	4.30	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	339				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0730	JU		4	0.500	µg/L	GE	EPA6020
1	Gross alpha	7.91E-09±3.02E-09	J	I		2.78E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	2.71E-07±1.07E-08				3.88E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.26E-04±2.56E-06				1.03E-06	µCi/mL	GP	RADA-002

**WELL HSB137C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 21.36 ft (6.51 m) below TOC  
 Water elevation: 214.64 ft (65.42 m) msl  
 pH: 5.9  
 Sp. conductance: 377 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 74 gal

Time: 11:39  
 Water temperature: 20.5°C  
 Air temperature: 24.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 4 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.344				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.138	J	I		0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	41,500				1,250	µg/L	GE	EPA353.1
0	pH	6.00	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	325				1.00	µS/cm	GE	EPA9050A
1	Specific conductance	325				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0170	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	2.57E-09±1.74E-09	J	I		2.39E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	6.97E-08±5.17E-09				3.50E-09	µCi/mL	GP	EPA900.0
2	Tritium	6.66E-03±1.48E-05				8.13E-07	µCi/mL	GP	RADA-002



**WELL HSB137D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/07/01  
 Depth to water: 19.91 ft (6.07 m) below TOC  
 Water elevation: 216.69 ft (66.05 m) msl  
 pH: 5.2  
 Sp. conductance: 150 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 10:29  
 Water temperature: 18.8°C  
 Air temperature: 20.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.127	J	I	0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
2	Nitrate-nitrite as nitrogen	14,000			500	µg/L	GE	EPA353.1	
0	pH	5.04	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	111			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	1.96E-09±1.35E-09	U		2.07E-09	µCi/mL	GP	EPA900.0	
1	Nonvolatile beta	3.58E-08±3.74E-09			3.08E-09	µCi/mL	GP	EPA900.0	
2	Tritium	2.01E-03±8.68E-06			9.21E-07	µCi/mL	GP	RADA-002	
2	Tritium	1.91E-03±7.97E-06			8.17E-07	µCi/mL	GP	RADA-002	

**WELL HSB138D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 30.68 ft (9.35 m) below TOC  
 Water elevation: 221.72 ft (67.58 m) msl  
 pH: 5.6  
 Sp. conductance: 22 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 22 gal

Time: 8:47  
 Water temperature: 20.6°C  
 Air temperature: 18.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	1,000			50.0	µg/L	GE	EPA353.1	
0	pH	5.53	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	15.8			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	-3.57E-10±1.35E-09	U		4.43E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	3.90E-09±3.02E-09	U		6.25E-09	µCi/mL	GP	EPA900.0	
2	Tritium	2.93E-05±1.01E-06			5.54E-07	µCi/mL	GP	RADA-002	

**WELL HSB139A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 61.45 ft (18.73 m) below TOC  
 Water elevation: 172.25 ft (52.5 m) msl  
 pH: 8.1  
 Sp. conductance: 195 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 46 gal

Time: 9:35  
 Water temperature: 21.5°C  
 Air temperature: 18.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	150			50.0	µg/L	GE	EPA353.1	
1	pH	8.17	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	146			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.308	JU		0.500	µg/L	GE	EPA6020	
0	Gross alpha	-3.48E-10±1.20E-09	U		3.80E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	-1.15E-09±2.63E-09	U		6.76E-09	µCi/mL	GP	EPA900.0	
0	Tritium	5.08E-08±4.03E-07	U		7.01E-07	µCi/mL	GP	RADA-002	

**WELL HSB139C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 22 ft (6.71 m) below TOC  
 Water elevation: 211.8 ft (64.56 m) msl  
 pH: 5.5  
 Sp. conductance: 318 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 90 gal

Time: 10:11  
 Water temperature: 20.7°C  
 Air temperature: 27.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.594	J	K	I	0.200	µg/L	GE	EPA6020
2	Mercury, total recoverable	3.64			0.200	µg/L	GE	EPA7470A	
2	Nitrate-nitrite as nitrogen	33,000			2,500	µg/L	GE	EPA353.1	
0	pH	5.70	J	Q	0.100	pH	GE	EPA9040B	
0	pH	5.71	J	Q	0.100	pH	GE	EPA9040B	
1	Specific conductance	305			1.00	µS/cm	GE	EPA9050A	
1	Specific conductance	305			1.00	µS/cm	GE	EPA120.1	
0	Thallium, total recoverable	<0.162	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	4.74E-09±3.14E-09	J	I		3.30E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	3.58E-09±3.37E-09	U			6.14E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	2.81E-08±5.69E-09	J	K	I	6.49E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	3.20E-08±6.29E-09	J	K	I	7.43E-09	µCi/mL	GP	EPA900.0

**WELL HSB139C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 21.82 ft (6.65 m) below TOC  
 Water elevation: 211.98 ft (64.61 m) msl  
 pH: 5.6  
 Sp. conductance: 337 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 17:11  
 Water temperature: 20.3°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.94E-03±7.77E-06				7.64E-07	µCi/mL	GP	RADA-002

**WELL HSB139D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 12.6 ft (3.84 m) below TOC  
 Water elevation: 221.2 ft (67.42 m) msl  
 pH: 5  
 Sp. conductance: 37 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 21 gal

Time: 9:18  
 Water temperature: 19.1°C  
 Air temperature: 18.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 99 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.106	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	750				50.0	µg/L	GE	EPA353.1
0	pH	5.10	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	26.5				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0980	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	3.58E-09±2.33E-09	J	I		3.41E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.29E-08±3.83E-09	J	I		5.90E-09	µCi/mL	GP	EPA900.0
2	Tritium	4.44E-05±1.37E-06				7.07E-07	µCi/mL	GP	RADA-002



**WELL HSB140A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 61.9 ft (18.87 m) below TOC  
 Water elevation: 174 ft (53.04 m) msl  
 pH: 8.9  
 Sp. conductance: 158 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 130 gal

Time: 12:51  
 Water temperature: 23.4°C  
 Air temperature: 29.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 57 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0410	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.0900	J	I		0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.96	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	114				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0720	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	2.07E-09±2.00E-09	U			3.51E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.17E-09±2.70E-09	U			5.87E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.67E-07±4.40E-07	J	I		7.08E-07	µCi/mL	GP	RADA-002

**WELL HSB141A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 81 ft (24.69 m) below TOC  
 Water elevation: 173.6 ft (52.91 m) msl  
 pH: 11.2  
 Sp. conductance: 120 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 102 gal

Time: 12:04  
 Water temperature: 20.1°C  
 Air temperature: 25.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 248 mg/L  
 Phenolphthalein alkalinity: 258 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	80.0				50.0	µg/L	GE	EPA353.1
2	pH	11.6	J	Q		0.100	pH	GE	EPA9040B
2	Specific conductance	817				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0750	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	1.79E-09±2.20E-09	U			4.40E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	6.69E-10±1.93E-09	U			4.73E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.68E-09±2.76E-09	U			6.20E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.56E-10±3.25E-09	U			7.61E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.17E-06±5.00E-07				7.13E-07	µCi/mL	GP	RADA-002

**WELL HSB142C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 5.52 ft (1.68 m) below TOC  
 Water elevation: 198.48 ft (60.5 m) msl  
 pH: 5.3  
 Sp. conductance: 23 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 57 gal

Time: 9:06  
 Water temperature: 21.1°C  
 Air temperature: 15.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0470	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	340				50.0	µg/L	GE	EPA353.1
0	pH	5.44	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	18.8				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-9.04E-10±4.10E-10	JU			3.92E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.83E-09±2.71E-09	U			6.03E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.50E-05±7.89E-07				6.02E-07	µCi/mL	GP	RADA-002

**WELL HSB142D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 5.71 ft (1.74 m) below TOC  
 Water elevation: 198.49 ft (60.5 m) msl  
 pH: 4.9  
 Sp. conductance: 48 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 9:22  
 Water temperature: 18.5°C  
 Air temperature: 16.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0620	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<10.0	U	V		50.0	µg/L	GE	EPA353.1
0	pH	4.85	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	33.6				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.20E-09±1.98E-09	U			4.32E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.27E-09±2.81E-09	U			6.15E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.29E-03±1.35E-05				6.14E-07	µCi/mL	GP	RADA-002

**WELL HSB143C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 14 ft (4.27 m) below TOC  
 Water elevation: 208.2 ft (63.46 m) msl  
 pH: 7.4  
 Sp. conductance: 86 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 54 gal

Time: 13:44  
 Water temperature: 22.1°C  
 Air temperature: 31.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0540	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	460				50.0	µg/L	GE	EPA353.1
0	pH	5.98	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	56.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0330	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	3.34E-09±3.02E-09	U			5.86E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.06E-09±3.04E-09	U			6.43E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.97E-06±7.04E-07				7.34E-07	µCi/mL	GP	RADA-002

**WELL HSB143D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 20.4 ft (6.22 m) below TOC  
 Water elevation: 202.5 ft (61.72 m) msl  
 pH: 6.7  
 Sp. conductance: 17 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 8 gal

Time: 13:58  
 Water temperature: 22.4°C  
 Air temperature: 31.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	230				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	240				50.0	µg/L	GE	EPA353.1
0	pH	4.87	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	12.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0260	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	2.42E-09±2.21E-09	U			4.02E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.68E-09±2.82E-09	U			6.32E-09	µCi/mL	GP	EPA900.0
0	Tritium	8.63E-06±7.11E-07				7.17E-07	µCi/mL	GP	RADA-002



**WELL HSB144A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 66.39 ft (20.24 m) below TOC  
 Water elevation: 169.21 ft (51.58 m) msl  
 pH: 6.8  
 Sp. conductance: 135 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 134 gal

Time: 12:32  
 Water temperature: 21.6°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 61 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Beryllium, total recoverable	<1.60	U		X	1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nitrate-nitrite as nitrogen	60.0				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	137				20.0	µg/L	WA	EPA353.2
0	Nitrate-nitrite as nitrogen	137				20.0	µg/L	WA	EPA353.2
0	pH	6.82	J	Q		0.100	pH	GE	EPA9040B
0	pH	6.91	J	Q	X	0.100	pH	WA	EPA9040B
0	Specific conductance	85.8				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	136				8.90	µS/cm	WA	EPA9050A
0	Thallium, total recoverable	<0.106	JU		4	0.500	µg/L	GE	EPA6020
0	Thallium, total recoverable	<55.0	U		X	55.0	µg/L	WA	EPA6010B
0	Gross alpha	2.53E-10±1.44E-09	U			3.79E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	1.15E-09±2.06E-09	U			1.16E-08	µCi/mL	ML	RADA-001
0	Gross alpha	7.71E-09±4.35E-09	U			1.24E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	1.63E-09±2.93E-09	U			6.61E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-4.84E-10±2.45E-09	U			1.38E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.71E-09±3.21E-09	U			1.42E-08	µCi/mL	ML	RADA-001
1	Tritium	1.78E-05±8.96E-07				6.75E-07	µCi/mL	GP	RADA-002
1	Tritium	1.86E-05±9.17E-07				5.33E-07	µCi/mL	ML	RADA-002
1	Tritium	1.77E-05±9.09E-07				5.43E-07	µCi/mL	ML	RADA-002

**WELL HSB144A Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 66.39 ft (20.24 m) below TOC  
 Water elevation: 169.21 ft (51.58 m) msl  
 pH: 6.8  
 Sp. conductance: 135 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 134 gal

Time: 12:32  
 Water temperature: 21.6°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 61 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	90.0				50.0	µg/L	GE	EPA353.1
0	pH	6.75	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	86.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0730	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.24E-10±1.26E-09	U			4.41E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.19E-09±2.64E-09	U			6.05E-09	µCi/mL	GP	EPA900.0
0	Tritium	9.73E-06±6.29E-07				5.41E-07	µCi/mL	GP	RADA-002

**WELL HSB145C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 23.36 ft (7.12 m) below TOC  
 Water elevation: 212.34 ft (64.72 m) msl  
 pH: 5.9  
 Sp. conductance: 331 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 73 gal

Time: 11:05  
 Water temperature: 22.2°C  
 Air temperature: 28.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 20 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.797				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.33				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	34,500				1,250	µg/L	GE	EPA353.1
0	pH	5.99	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	226				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0690	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	4.98E-09±3.73E-09	U			5.66E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.43E-08±5.87E-09				6.22E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.36E-03±6.51E-06				5.42E-07	µCi/mL	GP	RADA-002

**WELL HSB145D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 19.65 ft (5.99 m) below TOC  
 Water elevation: 216.55 ft (66.01 m) msl  
 pH: 6.1  
 Sp. conductance: 215 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 46 gal

Time: 13:21  
 Water temperature: 21°C  
 Air temperature: 21.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.646				0.200	µg/L	GE	EPA6020
1	Mercury, total recoverable	1.58				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	21,900				500	µg/L	GE	EPA353.1
0	pH	6.38	J	Q		0.100	pH	GE	EPA9040B
1	Specific conductance	440				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.226	JU		4	0.500	µg/L	GE	EPA6020
2	Gross alpha	2.60E-08±6.41E-09				4.58E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	5.45E-07±2.02E-08	J	L	I	6.88E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.14E-03±6.59E-06				6.97E-07	µCi/mL	GP	RADA-002

**WELL HSB146A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Depth to water: 77.39 ft (23.59 m) below TOC  
 Water elevation: 174.21 ft (53.1 m) msl  
 pH: 7.2  
 Sp. conductance: 187 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 135 gal

Time: 14:19  
 Water temperature: 21.3°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 80 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.15	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	133				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0460	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	7.02E-10±3.11E-09	U			8.12E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.84E-10±2.84E-09	U			6.67E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.54E-07±3.49E-07	U			5.80E-07	µCi/mL	GP	RADA-002
0	Tritium	-1.22E-07±3.27E-07	U			5.83E-07	µCi/mL	GP	RADA-002



## WELL HSB147D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
Depth to water: 40.2 ft (12.25 m) below TOC  
Water elevation: 227.1 ft (69.22 m) msl  
pH: 4.9  
Sp. conductance: 28 µS/cm  
Turbidity: 2 NTU  
Water evacuated from the well prior to sampling: 47 gal

Time: 11:45  
Water temperature: 20.5°C  
Air temperature: 31.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	330			50.0	µg/L	GE	EPA353.1	
0	pH	5.20	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	24.4			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.0600	U	V	0.500	µg/L	GE	EPA6020	
0	Gross alpha	1.41E-10±5.42E-10	U		1.43E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	-2.89E-10±1.60E-09	U		4.01E-09	µCi/mL	GP	EPA900.0	
0	Tritium	8.98E-06±6.37E-07			5.79E-07	µCi/mL	GP	RADA-002	

## WELL HSB149D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
Depth to water: 21.07 ft (6.42 m) below TOC  
Water elevation: 218.93 ft (66.73 m) msl  
pH: 4.7  
Sp. conductance: 29 µS/cm  
Turbidity: 2 NTU  
Water evacuated from the well prior to sampling: 123 gal

Time: 12:57  
Water temperature: 22.2°C  
Air temperature: 32.7°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0440	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.070				50.0	µg/L	GE	EPA353.1
0	pH	4.78	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.74	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	25.8				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.91E-09±2.32E-09	J	I		3.46E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	2.47E-10±7.76E-10	U			1.90E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-3.98E-10±2.00E-09	U			4.93E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	8.01E-10±1.84E-09	U			4.23E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.94E-05±8.54E-07				5.64E-07	µCi/mL	GP	RADA-002

## WELL HSB150D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
Depth to water: 12.59 ft (3.84 m) below TOC  
Water elevation: 226.41 ft (69.01 m) msl  
pH: 5.1  
Sp. conductance: 29 µS/cm  
Turbidity: 2 NTU  
Water evacuated from the well prior to sampling: 28 gal

Time: 9:42  
Water temperature: 18.8°C  
Air temperature: 17.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	20.0	J	I		50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	10.0	J	I		50.0	µg/L	GE	EPA353.1
0	pH	5.09	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.10	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	26.0				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	26.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.594				0.500	µg/L	GE	EPA6020

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Well HSB147D collected on 04/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Gross alpha	-1.04E-10±1.22E-09	U			3.63E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.13E-09±3.47E-09	JU	L	I	7.32E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.44E-05±8.28E-07				6.83E-07	µCi/mL	GP	RADA-002

## WELL HSB151C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
Depth to water: 6.93 ft (2.11 m) below TOC  
Water elevation: 206.67 ft (62.99 m) msl  
pH: 5.1  
Sp. conductance: 57 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 60 gal

Time: 11:47  
Water temperature: 21.7°C  
Air temperature: 27.8°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.0840	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.311				0.200	µg/L	GE	EPA7470A
1	Nitrate-nitrite as nitrogen	5.580				150	µg/L	GE	EPA353.1
0	pH	5.52	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	46.8				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.79E-09±2.42E-09	U			3.84E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	9.11E-09±3.58E-09	J	I		6.38E-09	µCi/mL	GP	EPA900.0
2	Tritium	5.27E-04±4.22E-06				6.00E-07	µCi/mL	GP	RADA-002

## WELL HSB151D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
Depth to water: 6.74 ft (2.05 m) below TOC  
Water elevation: 206.86 ft (63.05 m) msl  
pH: 5.1  
Sp. conductance: 21 µS/cm  
Turbidity: 5 NTU  
Water evacuated from the well prior to sampling: 19 gal

Time: 11:32  
Water temperature: 18.9°C  
Air temperature: 27.9°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	780				50.0	µg/L	GE	EPA353.1
0	pH	5.07	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	22.3				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.03E-10±1.80E-09	U			5.35E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.54E-10±2.56E-09	U			6.15E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.78E-05±1.04E-06				6.20E-07	µCi/mL	GP	RADA-002

## WELL HSB152C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
Depth to water: 15.81 ft (4.82 m) below TOC  
Water elevation: 198.29 ft (60.44 m) msl  
pH: 4.9  
Sp. conductance: 124 µS/cm  
Turbidity: 0 NTU  
Water evacuated from the well prior to sampling: 39 gal

Time: 10:43  
Water temperature: 19.6°C  
Air temperature: 18.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.389				0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.244				0.200	µg/L	GE	EPA7470A
2	Nitrate-nitrite as nitrogen	12,800				250	µg/L	GE	EPA353.1
0	pH	4.77	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	77.6				1.00	µS/cm	GE	EPA9050A

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Well HSB152C collected on 04/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Thallium, total recoverable	<0.217	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	4.02E-10±1.76E-09	U			4.63E-09	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	4.32E-08±6.27E-09				8.01E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.17E-03±6.33E-06				6.10E-07	µCi/mL	GP	RADA-002

**WELL HSB152D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Depth to water: 11.45 ft (3.49 m) below TOC  
 Water elevation: 202.65 ft (61.77 m) msl  
 pH: 5.3  
 Sp. conductance: 43 µS/cm  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 3 gal  
 The well went dry during purging.

Time: 13:11  
 Water temperature: 28.8°C  
 Air temperature: 23.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.119	J	I		0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	960				50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	940				50.0	µg/L	GE	EPA353.1
0	pH	5.48	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.49	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	10.3				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.434	J	I		0.500	µg/L	GE	EPA6020
0	Gross alpha	9.09E-10±1.28E-09	U			2.41E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	2.56E-10±1.50E-09	U			3.85E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	5.62E-09±3.17E-09	U			6.06E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	4.41E-09±3.35E-09	U			6.91E-09	µCi/mL	GP	EPA900.0
2	Tritium	9.58E-05±1.82E-06				5.94E-07	µCi/mL	GP	RADA-002

**WELL HSL 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 26.48 ft (8.07 m) below TOC  
 Water elevation: 237.52 ft (72.4 m) msl  
 pH: 4.6  
 Sp. conductance: 55 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 12:51  
 Water temperature: 21.5°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.389	J	K	C	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	3.360				150	µg/L	GE	EPA353.1
0	pH	4.19	J	Q		0.100	pH	GE	EPA9040B
0	pH	4.19	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	40.9				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	0.424	J	I		0.500	µg/L	GE	EPA6020
1	Gross alpha	1.21E-08±2.38E-09				1.12E-09	µCi/mL	GP	EPA900.0
1	Gross alpha	1.21E-08±1.96E-09				9.34E-10	µCi/mL	GP	EPA900.0
1	Nonvolatile beta	2.54E-08±2.12E-09				1.54E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.36E-08±2.16E-09				1.78E-09	µCi/mL	GP	EPA900.0
2	Tritium	1.09E-04±2.03E-06				6.86E-07	µCi/mL	GP	RADA-002

**WELL HSL 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 23.13 ft (7.05 m) below TOC  
 Water elevation: 242.37 ft (73.88 m) msl  
 pH: 5.1  
 Sp. conductance: 43 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 13:33  
 Water temperature: 21.4°C  
 Air temperature: 29.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	640				50.0	µg/L	GE	EPA353.1
0	pH	5.37	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	32.2				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.13E-09±5.94E-10	J	I		5.04E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.07E-09±8.77E-10	J	I		1.55E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.79E-05±8.95E-07				6.84E-07	µCi/mL	GP	RADA-002

**WELL HSL 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/27/01  
 Depth to water: 18.1 ft (5.52 m) below TOC  
 Water elevation: 249.5 ft (76.05 m) msl  
 pH: 4.7  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 14:11  
 Water temperature: 20.7°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0510	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	1.110				50.0	µg/L	GE	EPA353.1
0	pH	4.59	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	22.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	1.14E-09±6.25E-10	J	I		7.53E-10	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.15E-09±7.99E-10	U			1.61E-09	µCi/mL	GP	EPA900.0
2	Tritium	2.89E-05±1.10E-06				6.84E-07	µCi/mL	GP	RADA-002

**WELL HSL 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 13.1 ft (3.99 m) below TOC  
 Water elevation: 260.1 ft (79.28 m) msl  
 pH: 5.7  
 Sp. conductance: 80 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 12:16  
 Water temperature: 19.2°C  
 Air temperature: 32.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 41 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	810				50.0	µg/L	GE	EPA353.1
0	pH	5.24	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	65.7				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.31E-09±1.12E-09	J	I		1.13E-09	µCi/mL	GP	EPA900.0
2	Nonvolatile beta	8.54E-08±4.66E-09				2.33E-09	µCi/mL	GP	EPA900.0
1	Tritium	1.88E-05±9.88E-07				8.85E-07	µCi/mL	GP	RADA-002
1	Tritium	1.87E-05±9.36E-07				8.16E-07	µCi/mL	GP	RADA-002



**WELL HSL 5D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 10.54 ft (3.21 m) below TOC  
 Water elevation: 266.06 ft (81.1 m) msl  
 pH: 5.1  
 Sp. conductance: 34 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 7 gal  
 The well went dry during purging.

Time: 15:19  
 Water temperature: 30.8°C  
 Air temperature: 30.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	1.360			50.0	µg/L	GE	EPA353.1	
0	pH	5.84	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	23.3			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	1.52E-10±5.63E-10	U		1.35E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	1.12E-08±1.89E-09			2.28E-09	µCi/mL	GP	EPA900.0	
0	Tritium	4.82E-06±6.65E-07			8.82E-07	µCi/mL	GP	RADA-002	

**WELL HSL 6D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/04/01  
 Depth to water: 22.93 ft (6.99 m) below TOC  
 Water elevation: 257.07 ft (78.36 m) msl  
 pH: 4.3  
 Sp. conductance: 64 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 10:30  
 Water temperature: 20.9°C  
 Air temperature: 26.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0520	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	0.112	J	I	0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	840			50.0	µg/L	GE	EPA353.1	
0	pH	4.30	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	28.7			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	2.37E-09±1.75E-09	U		2.61E-09	µCi/mL	GP	EPA900.0	
1	Nonvolatile beta	3.22E-08±3.95E-09			3.86E-09	µCi/mL	GP	EPA900.0	
2	Tritium	2.15E-05±1.01E-06			8.48E-07	µCi/mL	GP	RADA-002	

**WELL HSL 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/04/01  
 Depth to water: 26.9 ft (8.2 m) below TOC  
 Water elevation: 256.9 ft (78.3 m) msl  
 pH: 4.7  
 Sp. conductance: 41 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 11:30  
 Water temperature: 20.4°C  
 Air temperature: 32.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0460	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	1,840			50.0	µg/L	GE	EPA353.1	
0	pH	4.64	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	24.5			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	5.96E-10±1.17E-09	U		2.68E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	3.58E-09±2.37E-09	U		4.79E-09	µCi/mL	GP	EPA900.0	
2	Tritium	2.78E-05±1.13E-06			8.58E-07	µCi/mL	GP	RADA-002	

**WELL HSL 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 30.94 ft (9.43 m) below TOC  
 Water elevation: 257.76 ft (78.57 m) msl  
 pH: 5  
 Sp. conductance: 86 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 13:19  
 Water temperature: 26.1°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U		0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	0.292			0.200	µg/L	GE	EPA7470A	
1	Nitrate-nitrite as nitrogen	8.750			250	µg/L	GE	EPA353.1	
0	pH	5.61	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	70.3			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.0990	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	1.53E-09±9.92E-10	U		1.55E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	2.27E-08±2.55E-09			2.61E-09	µCi/mL	GP	EPA900.0	
2	Tritium	5.80E-05±1.60E-06			8.97E-07	µCi/mL	GP	RADA-002	

**WELL HSL 9C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/04/01  
 Depth to water: 41 ft (12.5 m) below TOC  
 Water elevation: 241.6 ft (73.64 m) msl  
 pH: 5.5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 37 gal

Time: 12:45  
 Water temperature: 20.9°C  
 Air temperature: 34.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.0480	JU		4	0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	170			50.0	µg/L	GE	EPA353.1	
0	pH	5.55	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	95.0			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	<0.500	U		0.500	µg/L	GE	EPA6020	
0	Gross alpha	2.60E-09±1.65E-09	J	I	2.46E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	7.76E-10±1.91E-09	U		4.41E-09	µCi/mL	GP	EPA900.0	
0	Tritium	1.76E-06±5.61E-07	J	I	8.66E-07	µCi/mL	GP	RADA-002	

**WELL HSL 10C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Depth to water: 45.29 ft (13.8 m) below TOC  
 Water elevation: 240.61 ft (73.34 m) msl  
 pH: 6  
 Sp. conductance: 58 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 42 gal

Time: 14:25  
 Water temperature: 22.1°C  
 Air temperature: 30.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	0.114	J	I	0.200	µg/L	GE	EPA6020	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nitrate-nitrite as nitrogen	780			50.0	µg/L	GE	EPA353.1	
0	Nitrate-nitrite as nitrogen	800			50.0	µg/L	GE	EPA353.1	
0	pH	5.83	J	Q	0.100	pH	GE	EPA9040B	
0	Specific conductance	45.6			1.00	µS/cm	GE	EPA9050A	
0	Thallium, total recoverable	0.536			0.500	µg/L	GE	EPA6020	
0	Gross alpha	8.27E-10±7.62E-10	U		1.38E-09	µCi/mL	GP	EPA900.0	
0	Nonvolatile beta	9.96E-10±1.15E-09	U		2.51E-09	µCi/mL	GP	EPA900.0	
0	Tritium	1.62E-06±5.85E-07	J	I	9.14E-07	µCi/mL	GP	RADA-002	



## WELL HSL 11C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/04/01  
 Depth to water: 46.92 ft (14.3 m) below TOC  
 Water elevation: 233.68 ft (71.23 m) msl  
 pH: 5.3  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 34 gal

Time: 9:18  
 Water temperature: 19°C  
 Air temperature: 17.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Beryllium, total recoverable	0.0970	J	I		0.200	µg/L	GE	EPA6020
0 Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0 Nitrate-nitrite as nitrogen	1.510				50.0	µg/L	GE	EPA353.1
0 pH	5.24	J	Q		0.100	pH	GE	EPA9040B
0 Specific conductance	98.1				1.00	µS/cm	GE	EPA9050A
0 Thallium, total recoverable	<0.111	JU			0.500	µg/L	GE	EPA6020
0 Gross alpha	1.15E-09±1.54E-09	U		4	3.28E-09	µCi/mL	GP	EPA900.0
0 Nonvolatile beta	2.77E-09±2.22E-09	U			4.60E-09	µCi/mL	GP	EPA900.0
0 Tritium	5.46E-06±6.37E-07				8.07E-07	µCi/mL	GP	RADA-002

## WELL KCB 1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 63.51 ft (19.36 m) below TOC  
 Water elevation: 196.89 ft (60.01 m) msl  
 pH: 5.2  
 Sp. conductance: 28 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 30 gal

Time: 10:52  
 Water temperature: 29.8°C  
 Air temperature: 28.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0 Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0 Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0 Chromium, total recoverable	19.9				5.00	µg/L	GE	EPA6010B
0 Gross alpha	9.06E-10±4.76E-10	J	I		5.85E-10	µCi/mL	GP	EPA900.0
0 Radium-226	8.21E-10±5.32E-10	J	I		7.25E-10	µCi/mL	GP	RADA-008
0 Radium-228	2.35E-10±5.19E-10	U			1.13E-09	µCi/mL	GP	RADA-009
0 Uranium-233/234	5.35E-11±6.48E-11	U			1.09E-10	µCi/mL	GP	RADA-011
0 Uranium-235	2.22E-11±3.14E-11	U			3.32E-11	µCi/mL	GP	RADA-011
0 Uranium-238	-4.86E-12±3.15E-11	U			9.48E-11	µCi/mL	GP	RADA-011

## WELL KCB 3

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 53.23 ft (16.22 m) below TOC  
 Water elevation: 194.67 ft (59.34 m) msl  
 pH: 4.9  
 Sp. conductance: 63 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 14:01  
 Water temperature: 25.7°C  
 Air temperature: 27.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0 Bis(2-ethylhexyl) phthalate	<1.01	U			1.01	µg/L	GE	EPA8270C
0 Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0 Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0 Chromium, total recoverable	5.83				5.00	µg/L	GE	EPA6010B
0 Gross alpha	3.00E-09±1.15E-09	J	I		1.04E-09	µCi/mL	GP	EPA900.0
0 Radium-226	1.09E-09±5.08E-10	J	I		5.93E-10	µCi/mL	GP	RADA-008

Well KCB 3 collected on 05/03/01 (cont.)

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Radium-228	1.45E-09±5.41E-10	J	I		9.81E-10	µCi/mL	GP	RADA-009
0 Radium-228	1.19E-09±5.90E-10	J	I		1.12E-09	µCi/mL	GP	RADA-009
0 Uranium-233/234	1.90E-10±9.85E-11	J	I		9.27E-11	µCi/mL	GP	RADA-011
0 Uranium-235	9.10E-12±4.63E-11	U			1.07E-10	µCi/mL	GP	RADA-011
0 Uranium-238	7.86E-11±6.35E-11	J	I		7.50E-11	µCi/mL	GP	RADA-011

## WELL KCB 3 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 53.23 ft (16.22 m) below TOC  
 Water elevation: 194.67 ft (59.34 m) msl  
 pH: 4.9  
 Sp. conductance: 63 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 14:01  
 Water temperature: 25.7°C  
 Air temperature: 27.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0 Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0 Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0 Chromium, total recoverable	6.14				5.00	µg/L	GE	EPA6010B
0 Gross alpha	3.77E-09±1.28E-09				1.12E-09	µCi/mL	GP	EPA900.0
1 Radium-226	2.77E-09±7.31E-10				4.38E-10	µCi/mL	GP	RADA-008
0 Radium-228	1.32E-09±5.01E-10	J	I		9.10E-10	µCi/mL	GP	RADA-009
0 Uranium-233/234	1.89E-10±1.00E-10	J	I		1.04E-10	µCi/mL	GP	RADA-011
0 Uranium-233/234	1.56E-10±1.48E-10	U			2.06E-10	µCi/mL	GP	RADA-011
0 Uranium-235	1.36E-11±3.37E-11	U			7.38E-11	µCi/mL	GP	RADA-011
0 Uranium-235	0.00E+00±2.00E-09	U			8.92E-11	µCi/mL	GP	RADA-011
0 Uranium-238	1.30E-10±7.89E-11	J	I		7.35E-11	µCi/mL	GP	RADA-011
0 Uranium-238	1.78E-10±1.47E-10	J	I		8.89E-11	µCi/mL	GP	RADA-011

## WELL KCB 5

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 54.6 ft (16.64 m) below TOC  
 Water elevation: 193.2 ft (58.89 m) msl  
 pH: 4.3  
 Sp. conductance: 301 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 11:47  
 Water temperature: 23.9°C  
 Air temperature: 30.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Beryllium, total recoverable	1.12	J	I		5.00	µg/L	GE	EPA6010B
0 Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0 Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0 Chromium, total recoverable	1.68	J	I		5.00	µg/L	GE	EPA6010B
0 Gross alpha	9.44E-10±7.65E-10	U			1.29E-09	µCi/mL	GP	EPA900.0
0 Radium-226	8.87E-10±4.45E-10	J	I		5.07E-10	µCi/mL	GP	RADA-008
1 Radium-228	2.67E-09±7.25E-10	J	I		1.25E-09	µCi/mL	GP	RADA-009
0 Uranium-233/234	1.22E-10±7.49E-11	J	I		3.34E-11	µCi/mL	GP	RADA-011
0 Uranium-235	9.38E-12±4.77E-11	U			1.10E-10	µCi/mL	GP	RADA-011
0 Uranium-238	5.88E-11±5.72E-11	U			7.73E-11	µCi/mL	GP	RADA-011



**WELL KCB 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Depth to water: 53.82 ft (16.4 m) below TOC  
 Water elevation: 193.48 ft (58.97 m) msl  
 pH: 4.6  
 Sp. conductance: 43 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 12:38  
 Water temperature: 23.3°C  
 Air temperature: 29.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<1.00	U			1.00	µg/L	GE	EPA8270C
0	Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0	Chromium, total recoverable	4.26	J	I		5.00	µg/L	GE	EPA6010B
0	Gross alpha	8.09E-10±7.88E-10	U			1.51E-09	µCi/mL	GP	EPA900.0
0	Radium-226	8.78E-10±4.72E-10	J	I		5.77E-10	µCi/mL	GP	RADA-008
0	Radium-226	1.03E-09±5.13E-10	J	I		5.53E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.36E-09±5.20E-10	J	I		9.21E-10	µCi/mL	GP	RADA-009
0	Uranium-233/234	3.03E-11±8.72E-11	U			2.20E-10	µCi/mL	GP	RADA-011
0	Uranium-235	2.92E-11±5.86E-11	U			8.77E-11	µCi/mL	GP	RADA-011
0	Uranium-238	2.22E-11±6.00E-11	U			1.54E-10	µCi/mL	GP	RADA-011

**WELL KDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 70.85 ft (21.6 m) below TOC  
 Water elevation: 202.25 ft (61.65 m) msl  
 pH: 5.6  
 Sp. conductance: 210 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 11:03  
 Water temperature: 24.5°C  
 Air temperature: 26°C  
 Total alkalinity (as CaCO<sub>3</sub>): 52 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	2.34E-04±3.17E-06	J	L	I	5.64E-07	µCi/mL	ML	RADA-002

**WELL KDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 70.37 ft (21.45 m) below TOC  
 Water elevation: 202.73 ft (61.79 m) msl  
 pH: 5.5  
 Sp. conductance: 206 µS/cm  
 Turbidity: 57 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 10:00  
 Water temperature: 24.6°C  
 Air temperature: 33.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 50 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	9.96E-05±2.17E-06				6.34E-07	µCi/mL	ML	RADA-002

**WELL KDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/29/01  
 Depth to water: 70.25 ft (21.41 m) below TOC  
 Water elevation: 202.85 ft (61.83 m) msl  
 pH: 5.8  
 Sp. conductance: 226 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 13:45  
 Water temperature: 27.2°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 45 mg/L  
 Field Qualifier(s): RCSX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.70E-03±8.69E-06				5.75E-07	µCi/mL	ML	RADA-002

**WELL KDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 72.65 ft (22.14 m) below TOC  
 Water elevation: 200.85 ft (61.22 m) msl  
 pH: 6  
 Sp. conductance: 42 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 11:45  
 Water temperature: 24.8°C  
 Air temperature: 28.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.62E-04±2.66E-06				5.57E-07	µCi/mL	ML	RADA-002

**WELL KDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 72.22 ft (22.01 m) below TOC  
 Water elevation: 201.28 ft (61.35 m) msl  
 pH: 5.1  
 Sp. conductance: 39 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 57 gal

Time: 10:50  
 Water temperature: 24.3°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	2.04E-04±3.13E-06				5.96E-07	µCi/mL	ML	RADA-002

**WELL KDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/29/01  
 Depth to water: 72.12 ft (21.98 m) below TOC  
 Water elevation: 201.38 ft (61.38 m) msl  
 pH: 5.2  
 Sp. conductance: 41 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 12:19  
 Water temperature: 24.8°C  
 Air temperature: 34.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): RCS

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	4.97E-04±4.75E-06				5.84E-07	µCi/mL	ML	RADA-002



**WELL KDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 71.8 ft (21.88 m) below TOC  
 Water elevation: 201.6 ft (61.45 m) msl  
 pH: 6.2  
 Sp. conductance: 252 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 10:13  
 Water temperature: 26°C  
 Air temperature: 22.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 81 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
1	Tritium	1.29E-05±8.14E-07			5.61E-07		µCi/mL	ML	RADA-002

**WELL KDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 71.37 ft (21.75 m) below TOC  
 Water elevation: 202.03 ft (61.58 m) msl  
 pH: 5.5  
 Sp. conductance: 177 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 9:07  
 Water temperature: 24.5°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 47 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
1	Tritium	1.87E-05±1.00E-06			5.97E-07		µCi/mL	ML	RADA-002

**WELL KDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/29/01  
 Depth to water: 71.24 ft (21.71 m) below TOC  
 Water elevation: 202.16 ft (61.62 m) msl  
 pH: 6.1  
 Sp. conductance: 167 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 2 gal

Time: 13:10  
 Water temperature: 25.3°C  
 Air temperature: 34.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 41 mg/L  
 Field Qualifier(s): RCSX

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
1	Tritium	1.69E-05±9.58E-07			6.13E-07		µCi/mL	ML	RADA-002

**WELL KDB 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 72.5 ft (22.1 m) below TOC  
 Water elevation: 200.5 ft (61.11 m) msl  
 pH: 6.6  
 Sp. conductance: 63 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 12:21  
 Water temperature: 25.5°C  
 Air temperature: 27.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 12 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
2	Tritium	1.10E-03±6.91E-06			5.59E-07		µCi/mL	ML	RADA-002

**WELL KDB 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 6.1  
 Sp. conductance: 67 µS/cm  
 Turbidity: 8 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 11:19  
 Water temperature: 24.5°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
2	Tritium	1.01E-03±6.93E-06			5.94E-07		µCi/mL	ML	RADA-002

**WELL KDB 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 69.95 ft (21.32 m) below TOC  
 Water elevation: 200.15 ft (61.01 m) msl  
 pH: 5.6  
 Sp. conductance: 22 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 9:04  
 Water temperature: 21.6°C  
 Air temperature: 13.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
2	Tritium	3.06E-05±1.18E-06			5.48E-07		µCi/mL	ML	RADA-002

**WELL KDB 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 70.58 ft (21.51 m) below TOC  
 Water elevation: 199.52 ft (60.81 m) msl  
 pH: 5.3  
 Sp. conductance: 18 µS/cm  
 Turbidity: 13 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 17:20  
 Water temperature: 25.7°C  
 Air temperature: 41.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
2	Tritium	9.67E-05±2.17E-06			5.95E-07		µCi/mL	ML	RADA-002

**WELL KDB 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/29/01  
 Depth to water: 69.35 ft (21.14 m) below TOC  
 Water elevation: 200.75 ft (61.19 m) msl  
 pH: 5.7  
 Sp. conductance: 18 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 10:06  
 Water temperature: 27.5°C  
 Air temperature: 27.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 8 mg/L  
 Field Qualifier(s): RCSX

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
2	Tritium	8.46E-05±2.03E-06			6.12E-07		µCi/mL	ML	RADA-002



**WELL KRP 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 43.19 ft (13.16 m) below TOC  
 Water elevation: 212.41 ft (64.74 m) msl  
 pH: 5.6  
 Sp. conductance: 60 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 55 gal

Time: 15:57  
 Water temperature: 23.7°C  
 Air temperature: 34.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 15 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	1.38	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	2.55E-06±4.98E-07				6.37E-07	µCi/mL	ML	RADA-002

**WELL KRP 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 58.35 ft (17.79 m) below TOC  
 Water elevation: 209.35 ft (63.81 m) msl  
 pH: 5.4  
 Sp. conductance: 32 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 12:04  
 Water temperature: 22.4°C  
 Air temperature: 35.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	3.20	J	IL	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

ESH-EMS-20010585

Well KRP 5 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	3.76E-06±5.53E-07				6.40E-07	µCi/mL	ML	RADA-002

**WELL KRP 5 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 58.35 ft (17.79 m) below TOC  
 Water elevation: 209.35 ft (63.81 m) msl  
 pH: 5.4  
 Sp. conductance: 32 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 12:04  
 Water temperature: 22.4°C  
 Air temperature: 35.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	3.80E-06±5.52E-07				6.35E-07	µCi/mL	ML	RADA-002

B-190

Second Quarter 2001



**WELL KRP 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 59.38 ft (18.1 m) below TOC  
 Water elevation: 210.62 ft (64.2 m) msl  
 pH: 5.1  
 Sp. conductance: 32 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 5 gal  
 The well went dry during purging.

Time: 8:45  
 Water temperature: 23.3°C  
 Air temperature: 21.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	0.550	J	IL	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	4.26E-06±5.48E-07				5.85E-07	µCi/mL	ML	RADA-002

**WELL KRP 7**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 61.62 ft (18.78 m) below TOC  
 Water elevation: 208.58 ft (63.58 m) msl  
 pH: 5.1  
 Sp. conductance: 27 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 12:52  
 Water temperature: 26.8°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

Well KRP 7 collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	1.56	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	8.55E-06±7.05E-07				5.89E-07	µCi/mL	ML	RADA-002

**WELL KRP 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 56.54 ft (17.23 m) below TOC  
 Water elevation: 211.06 ft (64.33 m) msl  
 pH: 5.1  
 Sp. conductance: 28 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 13:36  
 Water temperature: 28.3°C  
 Air temperature: 37.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	0.800	J	IL	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Tetrachloroethylene	25.3	J	L	O	1.00	µg/L	ML	EPA8260B



Well KRP 8 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Trichloroethylene	28.6	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	5.62E-06±6.28E-07				6.41E-07	µCi/mL	ML	RADA-002

**WELL KRP 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 56.39 ft (17.19 m) below TOC  
 Water elevation: 211.91 ft (64.59 m) msl  
 pH: 6.3  
 Sp. conductance: 83 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 6 gal  
 The well went dry during purging.

Time: 9:55  
 Water temperature: 24°C  
 Air temperature: 26.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 17 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): VX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Tetrachloroethylene	10.7	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Trichloroethylene	10.1	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	3.91E-06±5.27E-07				5.75E-07	µCi/mL	ML	RADA-002

**WELL LAW 2C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Depth to water: 18.65 ft (5.68 m) below TOC  
 Water elevation: 205.35 ft (62.59 m) msl  
 pH: 5  
 Sp. conductance: 45 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 13:22  
 Water temperature: 25.3°C  
 Air temperature: 28.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	8.63E-04±6.05E-06	J	L	I	5.61E-07	µCi/mL	ML	RADA-002

**WELL LAW 2C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 19.71 ft (6.01 m) below TOC  
 Water elevation: 204.29 ft (62.27 m) msl  
 pH: 4.8  
 Sp. conductance: 46 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 69 gal

Time: 16:29  
 Water temperature: 22.7°C  
 Air temperature: 36.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	2.03E-03±9.29E-06				5.86E-07	µCi/mL	ML	RADA-002

**WELL LAW 2C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 20.12 ft (6.13 m) below TOC  
 Water elevation: 203.88 ft (62.14 m) msl  
 pH: 4.7  
 Sp. conductance: 45 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 9:56  
 Water temperature: 23°C  
 Air temperature: 33.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.89E-03±9.48E-06				6.16E-07	µCi/mL	ML	RADA-002

**WELL LDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 39.85 ft (12.15 m) below TOC  
 Water elevation: 212.05 ft (64.63 m) msl  
 pH: 5  
 Sp. conductance: 45 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 11:01  
 Water temperature: 26.2°C  
 Air temperature: 25.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	7.38E-06±6.52E-07	J	L	I	5.76E-07	µCi/mL	ML	RADA-002



**WELL LDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 39.76 ft (12.12 m) below TOC  
 Water elevation: 212.14 ft (64.66 m) msl  
 pH: 5  
 Sp. conductance: 44 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 15:38  
 Water temperature: 26°C  
 Air temperature: 38.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	7.82E-06±6.95E-07				5.96E-07	µCi/mL	ML	RADA-002

**WELL LDB 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 39.57 ft (12.06 m) below TOC  
 Water elevation: 212.33 ft (64.72 m) msl  
 pH: 5  
 Sp. conductance: 45 µS/cm  
 Turbidity: 15 NTU  
 Water evacuated from the well prior to sampling: 5 gal  
 The well went dry during purging.

Time: 15:23  
 Water temperature: 26.1°C  
 Air temperature: 31.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	7.31E-06±6.75E-07				6.04E-07	µCi/mL	ML	RADA-002

**WELL LDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 38.95 ft (11.87 m) below TOC  
 Water elevation: 213.95 ft (65.21 m) msl  
 pH: 5  
 Sp. conductance: 67 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 9:55  
 Water temperature: 25.8°C  
 Air temperature: 20.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	2.82E-06±4.73E-07	J	L	I	5.69E-07	µCi/mL	ML	RADA-002

**WELL LDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 38.95 ft (11.87 m) below TOC  
 Water elevation: 213.95 ft (65.21 m) msl  
 pH: 5  
 Sp. conductance: 70 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 14:16  
 Water temperature: 25.4°C  
 Air temperature: 36.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	3.38E-06±5.29E-07				6.07E-07	µCi/mL	ML	RADA-002

**WELL LDB 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 38.67 ft (11.79 m) below TOC  
 Water elevation: 214.23 ft (65.3 m) msl  
 pH: 5  
 Sp. conductance: 76 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 3 gal  
 The well went dry during purging.

Time: 14:33  
 Water temperature: 24.9°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	3.33E-06±5.20E-07				6.05E-07	µCi/mL	ML	RADA-002

**WELL LDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/24/01  
 Depth to water: 40.35 ft (12.3 m) below TOC  
 Water elevation: 212.75 ft (64.85 m) msl  
 pH: 5.8  
 Sp. conductance: 181 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 9:01  
 Water temperature: 23.1°C  
 Air temperature: 17.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 53 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	9.23E-05±2.01E-06	J	L	I	5.64E-07	µCi/mL	ML	RADA-002
2	Tritium	9.16E-05±2.00E-06	J	L	I	5.65E-07	µCi/mL	ML	RADA-002

**WELL LDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 40.56 ft (12.36 m) below TOC  
 Water elevation: 212.54 ft (64.78 m) msl  
 pH: 6.5  
 Sp. conductance: 272 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 40 gal

Time: 13:17  
 Water temperature: 24.7°C  
 Air temperature: 35.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 105 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.17E-04±2.52E-06				6.67E-07	µCi/mL	ML	RADA-002

**WELL LDB 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 40.18 ft (12.25 m) below TOC  
 Water elevation: 212.92 ft (64.9 m) msl  
 pH: 6.5  
 Sp. conductance: 293 µS/cm  
 Turbidity: 9 NTU  
 Water evacuated from the well prior to sampling: 45 gal

Time: 13:52  
 Water temperature: 25°C  
 Air temperature: 36°C  
 Total alkalinity (as CaCO<sub>3</sub>): 102 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.14E-04±2.36E-06				6.21E-07	µCi/mL	ML	RADA-002



**WELL LDB 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Depth to water: 38.35 ft (11.69 m) below TOC  
 Water elevation: 211.25 ft (64.39 m) msl  
 pH: 5.5  
 Sp. conductance: 44 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 13:26  
 Water temperature: 19.6°C  
 Air temperature: 15.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 32 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	6.20E-05±1.66E-06				5.82E-07	µCi/mL	ML	RADA-002

**WELL LDB 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Depth to water: 38.94 ft (11.87 m) below TOC  
 Water elevation: 210.66 ft (64.21 m) msl  
 pH: 5.4  
 Sp. conductance: 46 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 12:24  
 Water temperature: 24.4°C  
 Air temperature: 35.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	1.08E-04±2.25E-06				5.79E-07	µCi/mL	ML	RADA-002

**WELL LDB 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 38.48 ft (11.73 m) below TOC  
 Water elevation: 211.12 ft (64.35 m) msl  
 pH: 5.5  
 Sp. conductance: 48 µS/cm  
 Turbidity: 14 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 14:07  
 Water temperature: 23.2°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tritium	3.45E-05±1.28E-06				5.75E-07	µCi/mL	ML	RADA-002

**WELL LFP 1WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: 4.74 ft (1.44 m) below TOC  
 Water elevation: 135.06 ft (41.17 m) msl  
 pH: 4.9  
 Sp. conductance: 29 µS/cm  
 Turbidity: 11 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:16  
 Water temperature: 24°C  
 Air temperature: 30.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U	X		5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U	X		5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U	X		5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U	X		10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U	X		5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U	X		5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U	X		5.00	µg/L	WA	EPA8260B

Well LFP 1WP collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	4.18	J	I	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFP 2WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 83 µS/cm  
 Turbidity: 28 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 8:19  
 Water temperature: 20.1°C  
 Air temperature: 22°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): X

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	4.30	J	I		24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B



Well LFP 2WP collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFP 4WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 4.42 ft (1.35 m) below TOC  
 Water elevation: 132.58 ft (40.41 m) msl  
 pH: 4.9  
 Sp. conductance: 28 µS/cm  
 Turbidity: 9 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:11  
 Water temperature: 24.7°C  
 Air temperature: 26.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U		X	42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	6.35	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	9.20	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U		X	24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	1.67	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.68	J	I	X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFP 5WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: 0.88 ft (0.27 m) below TOC  
 Water elevation: 133.92 ft (40.82 m) msl  
 pH: 5.3  
 Sp. conductance: 78 µS/cm  
 Turbidity: 1000 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:56  
 Water temperature: 20.5°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	14.8	J	I	X	42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFP 5WP collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.09	J	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	15.0	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	3.88	J	I	X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Lead, total recoverable	158	U		X	24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.86	J	I	X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.41	J	I	X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFP 6WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: 2.45 ft (0.75 m) below TOC  
 Water elevation: 135.25 ft (41.22 m) msl  
 pH: 6.2  
 Sp. conductance: 862 µS/cm  
 Turbidity: 250 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:05  
 Water temperature: 24.8°C  
 Air temperature: 25.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 175 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	87.5			X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	17.3	J	I	X	42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	1.78	J	I	X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	30.8			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	2.30	J	I	X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U		X	24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	23.8			X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	2.76	J	I	X	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFP 6WP collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	8.48			X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	15.0			X	5.00	µg/L	WA	EPA8260B

**WELL LFP 10WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 1.81 ft (0.55 m) below TOC  
 Water elevation: 133.19 ft (40.6 m) msl  
 pH: 4.9  
 Sp. conductance: 31 µS/cm  
 Turbidity: 11 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 10:24  
 Water temperature: 20.2°C  
 Air temperature: 23.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFP 11WP**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 11:29  
 Water temperature: Not available  
 Air temperature: 25.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 18 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFP 11WP collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	2.00	J	I		5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	1.86	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	3.95	J	I		10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.28	J	I		10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	12.5				5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	12.8				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	1.33	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	1.43	J	I		5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<8.46	U	V	8	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<1.55	U	V	8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.66	J	I		5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.66	J	I		5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

B-196

Second Quarter 2001



## WELL LFP 12WP Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	1.20	J	I	X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.80	J	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	26.4			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.01	J	I	X	5.00	µg/L	WA	EPA8260B
1	1,2-Dichloroethylene	28.1			X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	4.82	J	I	X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	1.74	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	7.56			X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL LFP 12WP

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: 3.67 ft (1.12 m) below TOC  
 Water elevation: 128.93 ft (39.3 m) msl  
 pH: 4  
 Sp. conductance: 30 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:16  
 Water temperature: 20°C  
 Air temperature: 21.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B

Well LFP 12WP collected on 06/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon disulfide	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	0.896	J	I		1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	1.07	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<3.96	U	V		5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.00				5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<1.00	JU	L	I	1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	2.11	J	I	X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B



## WELL LFP 13WP

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Depth to water: 5.55 ft (1.69 m) below TOC  
 Water elevation: 132.95 ft (40.52 m) msl  
 pH: 5  
 Sp. conductance: 65 µS/cm  
 Turbidity: 34 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:00  
 Water temperature: 22.3°C  
 Air temperature: 24.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	14.1			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,2-Dichloroethylene	61.7			X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	6.91			X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.53	J	I	X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL LFP 14WP

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Depth to water: 3.73 ft (1.14 m) below TOC  
 Water elevation: 130.07 ft (39.65 m) msl  
 pH: 4.8  
 Sp. conductance: 23 µS/cm  
 Turbidity: 256 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 10:15  
 Water temperature: 19.4°C  
 Air temperature: 24.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): X

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFP 13WP collected on 06/28/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	11.0	J	I		24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL LFW 6R

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 18.41 ft (5.61 m) below TOC  
 Water elevation: 152.09 ft (46.36 m) msl  
 pH: 5  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 13:33  
 Water temperature: 17.2°C  
 Air temperature: 24.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	29.4				2.00	µg/L	WA	EPA6010B
0	Barium, total recoverable	29.6				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	2.38	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	2.00	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 6R collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	5.80	U	I		9.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	5.30	U	I		9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	7.11	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	7.62	U	K	O	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.33	U	IK	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.38	U	IK	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.414	U	I		1.00	µg/L	WA	EPA7470A
0	Mercury, total recoverable	0.449	U	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<2.70	JU		4	26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichlorofluoromethane	19.2	J	K	O	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 6R collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
1	Trichlorofluoromethane	15.5	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	1.92E-08±6.35E-09	J	I		1.15E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.35E-06±3.71E-07				5.13E-07	µCi/mL	ML	RADA-002

## WELL LFW 8R

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 22.43 ft (6.84 m) below TOC  
 Water elevation: 148.37 ft (45.22 m) msl  
 pH: 6.2  
 Sp. conductance: 172 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 15:37  
 Water temperature: 19.6°C  
 Air temperature: 31.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 63 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	JU	L	OX	20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	JU	L	OX	20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	10.8	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.50				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	2.86	J	IL	OX	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	JU	L	OX	20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	JU	L	OX	100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.150	J	I		0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	JU	L	OX	50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.930	U	V		5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B



Well LFW 8R collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tetrachloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
1	Gross alpha	1.46E-08±5.30E-09	J	I		1.15E-08	µCi/mL	ML	RADA-001
0	Tritium	1.02E-06±4.34E-07	J	I		6.55E-07	µCi/mL	ML	RADA-002

## WELL LFW 10A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 30.9 ft (9.42 m) below TOC  
 Water elevation: 150.7 ft (45.93 m) msl  
 pH: 6.5  
 Sp. conductance: 297 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 34 gal

Time: 13:50  
 Water temperature: 21.1°C  
 Air temperature: 23.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 98 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetone	12.2	J	K	O	10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	11.9	J	I		40.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	11.8	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.40				1.80	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.00				1.80	µg/L	WA	EPA6010B
1	Benzene	3.61	J	IK	O	5.00	µg/L	WA	EPA8260B
1	Benzene	4.61	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	2.14	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	2.62	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	14.3	J	K	O	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	21.1	J	K	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.760	JU		4	7.00	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<1.00	JU		4	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 10A collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,4-Dichlorobenzene	37.2	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	29.2	J	K	O	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	0.953	J	IK	O	10.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	47.1	J	K	O	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	59.0	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	3.41	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	4.36	J	IK	O	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.110	J	IL	I	0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<3.15	JU	IK	O8	5.00	µg/L	WA	EPA8260B
0	Toluene	3.53	J	IK	O	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	5.67	J	K	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	7.04	J	K	O	5.00	µg/L	WA	EPA8260B
0	Gross alpha	-2.54E-09±6.69E-10	U			1.66E-08	µCi/mL	ML	RADA-001B
2	Tritium	7.59E-05±1.87E-06	U			6.02E-07	µCi/mL	ML	RADA-002

B-200

Second Quarter 2001



## WELL LFW 18

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 21.22 ft (6.47 m) below TOC  
 Water elevation: 162.68 ft (49.59 m) msl  
 pH: 6.3  
 Sp. conductance: 120 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 41 gal

Time: 12:39  
 Water temperature: 20.3°C  
 Air temperature: 22.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 43 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	19.6	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.60				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	1.57	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	4.06	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	6.11E-09±4.41E-09	U			1.68E-08	µCi/mL	ML	RADA-001B
0	Tritium	2.20E-06±4.63E-07	U			6.06E-07	µCi/mL	ML	RADA-002

## WELL LFW 21

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 35.78 ft (10.91 m) below TOC  
 Water elevation: 149.32 ft (45.51 m) msl  
 pH: 6.6  
 Sp. conductance: 246 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 19 gal

Time: 14:54  
 Water temperature: 21.3°C  
 Air temperature: 25.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 89 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	10.3	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.60				1.80	µg/L	WA	EPA6010B
2	Benzene	5.23				5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	3.83	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	120				10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	33.1				5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	2.55	J	I		10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	46.1				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	24.4				5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	16.6				5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	51.8				5.00	µg/L	WA	EPA8260B
0	Gross alpha	6.36E-09±4.58E-09	U			1.75E-08	µCi/mL	ML	RADA-001B
0	Tritium	9.59E-06±7.28E-07	U			5.93E-07	µCi/mL	ML	RADA-002



## WELL LFW 23R

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 20.73 ft (6.32 m) below TOC  
 Water elevation: 149.77 ft (45.65 m) msl  
 pH: 4.9  
 Sp. conductance: 34 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 8:06  
 Water temperature: 17.3°C  
 Air temperature: 7.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	9.80				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.840	JU		4	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	2.18	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.200	J	IL	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	2.96E-08±8.02E-09	J		I	1.55E-08	µCi/mL	ML	RADA-001
2	Gross alpha	4.78E-08±1.01E-08				1.55E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	7.08E-09±4.10E-09	U			1.39E-08	µCi/mL	ML	RADA-001
0	Tritium	1.40E-06±3.96E-07				5.53E-07	µCi/mL	ML	RADA-002

## WELL LFW 31

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 67.74 ft (20.65 m) below TOC  
 Water elevation: 161.56 ft (49.24 m) msl  
 pH: 5.2  
 Sp. conductance: 13 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 10:58  
 Water temperature: 21.1°C  
 Air temperature: 18.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	3.30				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.65E-09±3.54E-09	U			1.56E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.38E-06±4.11E-07	J	I		5.85E-07	µCi/mL	ML	RADA-002



## WELL LFW 36R

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 22.03 ft (6.71 m) below TOC  
 Water elevation: 146.37 ft (44.61 m) msl  
 pH: 6.4  
 Sp. conductance: 149 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 8:59  
 Water temperature: 19.2°C  
 Air temperature: 13.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 51 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.80				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	7.67				5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	13.0				10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.70	J	I		9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	9.47				5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	13.6				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	3.51E-08±8.74E-09				1.21E-08	µCi/mL	ML	RADA-001B
0	Tritium	2.02E-06±4.58E-07				6.00E-07	µCi/mL	ML	RADA-002
0	Tritium	2.00E-06±4.40E-07				5.72E-07	µCi/mL	ML	RADA-002

## WELL LFW 41R

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 27.66 ft (8.43 m) below TOC  
 Water elevation: 142.04 ft (43.29 m) msl  
 pH: 5  
 Sp. conductance: 37 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 17 gal

Time: 9:01  
 Water temperature: 18.7°C  
 Air temperature: 12.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.90				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.960	JU		4	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
1	Dichlorodifluoromethane	12.3	J	K	O	10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	10.2	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	2.69	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	2.20	J	IK	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.59	J	IK	O	5.00	µg/L	WA	EPA8260B
1	Trichlorofluoromethane	12.9	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	1.56E-08±6.06E-09	J	I		1.55E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.58E-06±4.09E-07				5.59E-07	µCi/mL	ML	RADA-002



## WELL LFW 43B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 40.39 ft (12.31 m) below TOC  
 Water elevation: 162.61 ft (49.56 m) msl  
 pH: 5.2  
 Sp. conductance: 19 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 111 gal

Time: 12:38  
 Water temperature: 20°C  
 Air temperature: 21.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.09				5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	3.90				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	0.837	J	I		5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<9.00	U			9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 43B collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.05E-10±1.32E-09	U			3.27E-09	µCi/mL	GP	EPA900.0
1	Gross alpha	1.49E-08±5.57E-09	J	I		1.12E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.13E-06±4.05E-07	J	I		6.19E-07	µCi/mL	GP	RADA-002
0	Tritium	1.02E-06±3.95E-07	J	I		6.09E-07	µCi/mL	GP	RADA-002
0	Tritium	7.17E-07±3.21E-07	J	I		4.88E-07	µCi/mL	ML	RADA-002

## WELL LFW 43B Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 40.39 ft (12.31 m) below TOC  
 Water elevation: 162.61 ft (49.56 m) msl  
 pH: 5.2  
 Sp. conductance: 19 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 111 gal

Time: 12:38  
 Water temperature: 20°C  
 Air temperature: 21.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	4.10	J	I		23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	3.40				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<9.00	U			9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

B-204

Second Quarter 2001



Well LFW 43B collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.09E-09±3.45E-09	U			1.13E-08	µCi/mL	ML	RADA-001B
0	Tritium	8.87E-07±3.54E-07	J	I		5.29E-07	µCi/mL	ML	RADA-002

**WELL LFW 43C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 40.04 ft (12.2 m) below TOC  
 Water elevation: 162.56 ft (49.55 m) msl  
 pH: 5.3  
 Sp. conductance: 15 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 65 gal

Time: 11:51  
 Water temperature: 19.2°C  
 Air temperature: 23.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.80	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.00	JU		4	9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 43C collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.09E-08±4.80E-09	U			1.12E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.40E-06±3.64E-07	U			4.95E-07	µCi/mL	ML	RADA-002

**WELL LFW 43D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 40.34 ft (12.3 m) below TOC  
 Water elevation: 162.56 ft (49.55 m) msl  
 pH: 5.3  
 Sp. conductance: 12 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 12:24  
 Water temperature: 18.6°C  
 Air temperature: 19.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.30	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<9.00	U			9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B

B-205

Second Quarter 2001



Well LFW 43D collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.08E-09±2.84E-09	U			1.14E-08	µCi/mL	ML	RADA-001B
0	Tritium	6.27E-07±3.39E-07	J	I		5.31E-07	µCi/mL	ML	RADA-002

**WELL LFW 45D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 15.44 ft (4.71 m) below TOC  
 Water elevation: 150.86 ft (45.98 m) msl  
 pH: 5.1  
 Sp. conductance: 45 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 37 gal

Time: 14:11  
 Water temperature: 18.1°C  
 Air temperature: 26°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	19.9	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.00	J	I		9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.611	J	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 45D collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichlorofluoromethane	26.0	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	1.74E-08±6.10E-09	J	I		1.16E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.01E-06±3.53E-07	J	I		5.15E-07	µCi/mL	ML	RADA-002

**WELL LFW 47C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 13.51 ft (4.12 m) below TOC  
 Water elevation: 147.89 ft (45.08 m) msl  
 pH: 5  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 85 gal

Time: 15:09  
 Water temperature: 19.8°C  
 Air temperature: 21.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	8.30	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.900	JU		4	9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.85	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.296	J	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 47C collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	3.24	J	I		5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.67	J	I		5.00	µg/L	WA	EPA8260B
2	Trichlorofluoromethane	123				5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.13E-08±4.97E-09	U			1.16E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.64E-06±3.88E-07	U			5.14E-07	µCi/mL	ML	RADA-002

**WELL LFW 47D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 13.39 ft (4.08 m) below TOC  
 Water elevation: 148.31 ft (45.21 m) msl  
 pH: 5.5  
 Sp. conductance: 39 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 34 gal

Time: 14:53  
 Water temperature: 17°C  
 Air temperature: 22.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	21.5				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.70	J	I		9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	14.9	J	I		26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<1.00	U			1.00	µg/L	WA	EPA7470A

ESH-EMS-20010585

Well LFW 47D collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.26E-09±3.56E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Tritium	6.44E-07±3.38E-07	J	I		5.27E-07	µCi/mL	ML	RADA-002

**WELL LFW 56D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 13.47 ft (4.11 m) below TOC  
 Water elevation: 144.63 ft (44.08 m) msl  
 pH: 5.3  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 10:40  
 Water temperature: 18.2°C  
 Air temperature: 18.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.00				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.20	J	I		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 56D collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	1.79E-08±6.45E-09	J	I		1.57E-08	µCi/mL	ML	RADA-001B
0	Tritium	8.44E-07±3.65E-07	J	I		5.54E-07	µCi/mL	ML	RADA-002

**WELL LFW 58D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 25.08 ft (7.64 m) below TOC  
 Water elevation: 142.52 ft (43.44 m) msl  
 pH: 6.3  
 Sp. conductance: 131 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 39 gal

Time: 10:54  
 Water temperature: 22°C  
 Air temperature: 20.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 39 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<5.00	U		6	5.00	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<3.40	JU	I	6	23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.08	J	I		5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	2.10	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<0.401	JU		4	5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.07	JU	I	6	5.00	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<2.90	JU	I	6	9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	34.6				5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	1.17	J	I		5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 58D collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.143	J	I		0.200	µg/L	GE	EPA7470A
0	Mercury, total recoverable	0.389	J	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	5.20				5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	-8.59E-10±1.50E-09	U			4.90E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	7.12E-09±4.01E-09	U			1.14E-08	µCi/mL	ML	RADA-001B
0	Tritium	5.56E-06±5.55E-07				6.05E-07	µCi/mL	GP	RADA-002
0	Tritium	5.12E-06±5.22E-07				4.88E-07	µCi/mL	ML	RADA-002

**WELL LFW 58D Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 25.08 ft (7.64 m) below TOC  
 Water elevation: 142.52 ft (43.44 m) msl  
 pH: 6.3  
 Sp. conductance: 131 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 39 gal

Time: 10:54  
 Water temperature: 22°C  
 Air temperature: 20.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 39 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<4.00	JU	I	6	23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.00	U			2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.60	JU	I	6	9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B

B-208

Second Quarter 2001



Well LFW 58D collected on 04/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	34.8	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	1.36	J	IK		5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	1.32	J	IK	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.415	J	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	5.38	J	K	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.50E-09±3.73E-09	U			1.22E-08	µCi/mL	ML	RADA-001B
0	Tritium	5.33E-06±5.50E-07	U			5.18E-07	µCi/mL	ML	RADA-002

**WELL LFW 59C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 24 ft (7.32 m) below TOC  
 Water elevation: 143.3 ft (43.68 m) msl  
 pH: 5  
 Sp. conductance: 62 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 94 gal

Time: 10:26  
 Water temperature: 20.5°C  
 Air temperature: 26.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 4 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	1.37	J	I	X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.53	J	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	25.6	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.10	J	I	X	5.00	µg/L	WA	EPA8260B
1	1,2-Dichloroethylene	28.8	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 59C collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	5.28	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	1.79	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	8.09	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFW 59C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.23	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

B-209

Second Quarter 2001



## WELL LFW 59D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 22.63 ft (6.9 m) below TOC  
 Water elevation: 144.97 ft (44.19 m) msl  
 pH: 5.2  
 Sp. conductance: 37 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 62 gal

Time: 12:47  
 Water temperature: 21.3°C  
 Air temperature: 19.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Acetonitrile (Methyl cyanide)	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Acrolein	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Acrylonitrile	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Allyl chloride	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Arsenic, total recoverable	<23.0	U		23.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	7.40			2.00	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Cadmium, total recoverable	<3.00	U		3.00	µg/L	WA	EPA6010B	
0	Carbon disulfide	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroprene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chromium, total recoverable	1.60	J	I	9.00	µg/L	WA	EPA6010B	
0	Dibromochloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dibromo-3-chloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dibromoethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dibromomethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,4-Dichlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,4-Dichloro-2-butene	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Dichlorodifluoromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	1,1-Dichloroethane	5.52			5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	2-Hexanone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Iodomethane (Methyl iodide)	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Isobutyl alcohol	<100	U		100	µg/L	WA	EPA8260B	
0	Lead, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<1.00	U		1.00	µg/L	WA	EPA7470A	
0	Methacrylonitrile	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl ethyl ketone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl isobutyl ketone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl methacrylate	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Propionitrile	<50.0	U		50.0	µg/L	WA	EPA8260B	
0	Selenium, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<10.0	U		10.0	µg/L	WA	EPA6010B	
0	Styrene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,1,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tetrachloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Toluene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,1-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichlorofluoromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2,3-Trichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Vinyl acetate	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Xylenes	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Gross alpha	1.12E-08±4.93E-09	U		1.15E-08	µCi/mL	ML	RADA-001B	
0	Tritium	3.01E-07±3.00E-07	U		4.97E-07	µCi/mL	ML	RADA-002	

## WELL LFW 60C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 19.06 ft (5.81 m) below TOC  
 Water elevation: 138.14 ft (42.11 m) msl  
 pH: 6  
 Sp. conductance: 48 µS/cm  
 Turbidity: 7 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 15:23  
 Water temperature: 22.2°C  
 Air temperature: 17.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Acetonitrile (Methyl cyanide)	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Acrolein	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Acrylonitrile	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Allyl chloride	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Arsenic, total recoverable	<3.40	JU	4	23.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	3.30			2.00	µg/L	WA	EPA6010B	
0	Benzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromodichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromoform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Cadmium, total recoverable	<3.00	U		3.00	µg/L	WA	EPA6010B	
0	Carbon disulfide	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Carbon tetrachloride	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloroethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroform	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chloromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Chloroprene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Chromium, total recoverable	1.20	J	I	9.00	µg/L	WA	EPA6010B	
0	Dibromochloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dibromo-3-chloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dibromoethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dibromomethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,4-Dichlorobenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,4-Dichloro-2-butene	<20.0	U		20.0	µg/L	WA	EPA8260B	
0	Dichlorodifluoromethane	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	1,1-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Dichloromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2-Dichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	cis-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	trans-1,3-Dichloropropene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Ethylbenzene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	2-Hexanone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Iodomethane (Methyl iodide)	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Isobutyl alcohol	<100	U		100	µg/L	WA	EPA8260B	
0	Lead, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<1.00	U		1.00	µg/L	WA	EPA7470A	
0	Methacrylonitrile	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl ethyl ketone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl isobutyl ketone	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Methyl methacrylate	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Propionitrile	<50.0	U		50.0	µg/L	WA	EPA8260B	
0	Selenium, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<10.0	U		10.0	µg/L	WA	EPA6010B	
0	Styrene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,1,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Tetrachloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Toluene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,1-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,1,2-Trichloroethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichloroethylene	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Trichlorofluoromethane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	1,2,3-Trichloropropane	<5.00	U		5.00	µg/L	WA	EPA8260B	
0	Vinyl acetate	<10.0	U		10.0	µg/L	WA	EPA8260B	
0	Xylenes	<5.00	U		5.00	µg/L	WA	EPA8260B	
2	Gross alpha	2.54E-08±7.31E-09	J	I	1.16E-08	µCi/mL	ML	RADA-001B	
0	Tritium	1.78E-06±4.10E-07			5.41E-07	µCi/mL	ML	RADA-002	



## WELL LFW 60D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
 Depth to water: 18.54 ft (5.65 m) below TOC  
 Water elevation: 138.56 ft (42.23 m) msl  
 pH: 5.1  
 Sp. conductance: 36 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 13:46  
 Water temperature: 19.4°C  
 Air temperature: 17.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<23.0	U			23.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.30				2.00	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<3.00	U			3.00	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.10	J	I		9.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	15.8	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	1.00	J	IK	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.190	J	I		1.00	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.86	J	K	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	7.37E-09±4.15E-09	U			1.18E-08	µCi/mL	ML	RADA-001B
0	Tritium	2.04E-06±4.12E-07	U			5.22E-07	µCi/mL	ML	RADA-002

ESH-EMS-20010585

## WELL LFW 61C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 23.21 ft (7.07 m) below TOC  
 Water elevation: 145.09 ft (44.22 m) msl  
 pH: 6.6  
 Sp. conductance: 271 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 84 gal

Time: 10:58  
 Water temperature: 21.4°C  
 Air temperature: 27.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 141 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	20.5	J	I		42.0	µg/L	WA	EPA6010B
0	Benzene	2.11	J	I	X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	40.2			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.34	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	9.58			X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	1.24	J	I	X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	15.1			X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.34	J	I	X	5.00	µg/L	WA	EPA8260B
0	Toluene	9.56			X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.50			X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	48.9			X	5.00	µg/L	WA	EPA8260B

## WELL LFW 61D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 22.85 ft (6.96 m) below TOC  
 Water elevation: 145.45 ft (44.33 m) msl  
 pH: 5.7  
 Sp. conductance: 44 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 24 gal

Time: 9:54  
 Water temperature: 24.5°C  
 Air temperature: 16.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	4.70				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B

B-211

Second Quarter 2001



Well LFW 61D collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	3.40	J	I		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.37	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	4.80	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.79E-09±3.66E-09	U			1.61E-08	µCi/mL	ML	RADA-001B
0	Tritium	7.24E-07±3.80E-07	J	I		5.96E-07	µCi/mL	ML	RADA-002
0	Tritium	6.07E-07±3.61E-07	J	I		5.73E-07	µCi/mL	ML	RADA-002

**WELL LFW 62C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 21.22 ft (6.47 m) below TOC  
 Water elevation: 144.28 ft (43.98 m) msl  
 pH: 4.6  
 Sp. conductance: 76 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 64 gal

Time: 9:43  
 Water temperature: 21.4°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): RCS

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
1	Benzene	2.81	J	I	X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	3.00	J	I	X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 62C collected on 06/12/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Chloroethene (Vinyl chloride)	4.08	J	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	34.1			X	5.00	µg/L	WA	EPA8260B
1	1,2-Dichloroethane	3.70	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	1.35	J	I	X	5.00	µg/L	WA	EPA8260B
2	1,2-Dichloroethylene	80.1			X	5.00	µg/L	WA	EPA8260B
2	Dichloromethane	7.73			X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.28	J	I	X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	8.09			X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	1.15	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL LFW 63B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 28.67 ft (8.74 m) below TOC  
 Water elevation: 139.13 ft (42.41 m) msl  
 pH: 4.1  
 Sp. conductance: 55 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 15:26  
 Water temperature: 19.7°C  
 Air temperature: 23.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<5.50	U	V		1.80	µg/L	WA	EPA8010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.50	U	V		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 63B collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	9.85E-09±5.05E-09	U			1.58E-08	µCi/mL	ML	RADA-001B
0	Tritium	4.42E-07±3.55E-07	U			5.81E-07	µCi/mL	ML	RADA-002

**WELL LFW 63C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 28.64 ft (8.73 m) below TOC  
 Water elevation: 139.46 ft (42.51 m) msl  
 pH: 4.8  
 Sp. conductance: 28 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 26 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<4.10	U	V		1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 63C collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.63E-09±3.51E-09	U			1.54E-08	µCi/mL	ML	RADA-001B
0	Tritium	9.36E-07±3.91E-07	J	I		5.96E-07	µCi/mL	ML	RADA-002

**WELL LFW 63D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 28.17 ft (8.59 m) below TOC  
 Water elevation: 140.13 ft (42.71 m) msl  
 pH: 5.4  
 Sp. conductance: 27 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 8 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<2.30	U	V		1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<4.20	U	V		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.31	J	IK	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

B-213

Second Quarter 2001



Well LFW 63D collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.72E-09±4.11E-09	U			1.57E-08	µCi/mL	ML	RADA-001B
0	Gross alpha	9.96E-09±5.11E-09	U			1.60E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.13E-06±3.92E-07	J	I		5.80E-07	µCi/mL	ML	RADA-002

**WELL LFW 64C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 12.8 ft (3.9 m) below TOC  
 Water elevation: 139.4 ft (42.49 m) msl  
 pH: 3.9  
 Sp. conductance: 82 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 34 gal

Time: 13:36  
 Water temperature: 19°C  
 Air temperature: 21.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	6.60	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	2.20	J	I		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 64C collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Gross alpha	2.81E-08±7.90E-09	J	I		1.57E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.22E-06±4.00E-07	J	I		5.82E-07	µCi/mL	ML	RADA-002

**WELL LFW 64D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 12.63 ft (3.85 m) below TOC  
 Water elevation: 139.57 ft (42.54 m) msl  
 pH: 5.5  
 Sp. conductance: 39 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 14 gal

Time: 12:47  
 Water temperature: 19.7°C  
 Air temperature: 15.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<6.70	U	V		1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	1.63	J	I		5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	4.67	J	I		10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.50	U	V		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B

B-214

Second Quarter 2001



Well LFW 64D collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,4-Dichlorobenzene	4.60	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	1.78	J	I		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.67E-09±2.95E-09	U			1.57E-08	µCi/mL	ML	RADA-001B
0	Tritium	2.88E-06±4.81E-07	U			5.90E-07	µCi/mL	ML	RADA-002

**WELL LFW 65B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 10.94 ft (3.33 m) below TOC  
 Water elevation: 137.26 ft (41.84 m) msl  
 pH: 4.3  
 Sp. conductance: 48 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 39 gal

Time: 14:36  
 Water temperature: 19.3°C  
 Air temperature: 20°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.00	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 65B collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.11E-09±3.02E-09	U			1.33E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.94E-07±3.41E-07	U			5.83E-07	µCi/mL	ML	RADA-002

**WELL LFW 65C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 11.04 ft (3.37 m) below TOC  
 Water elevation: 137.16 ft (41.81 m) msl  
 pH: 4.8  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 33 gal

Time: 14:21  
 Water temperature: 19.2°C  
 Air temperature: 20.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.40	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B

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Second Quarter 2001



Well LFW 65C collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	-3.54E-10±2.13E-09	U			1.57E-08	µCi/mL	ML	RADA-001B
0	Tritium	9.11E-07±3.84E-07	J	I		5.84E-07	µCi/mL	ML	RADA-002

**WELL LFW 65D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 10.9 ft (3.32 m) below TOC  
 Water elevation: 137.5 ft (41.91 m) msl  
 pH: 5.2  
 Sp. conductance: 34 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 9 gal

Time: 14:40  
 Water temperature: 19.2°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U		X	40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	4.50	U		X	1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U		X	4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 65D collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroprene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U		X	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	2.47	J	I	X	10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	16.1	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U		X	100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U		X	47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	0.263	J	I	X	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U		X	50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U		X	66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U		X	5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.21	J	I	X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.88	J	I	X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	6.16	U		X	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.59E-10±1.51E-09	U			9.57E-09	µCi/mL	ML	RADA-001
0	Tritium	5.27E-06±6.00E-07	U			5.96E-07	µCi/mL	ML	RADA-002

**WELL LFW 67B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 19.3 ft (5.88 m) below TOC  
 Water elevation: 138.4 ft (42.18 m) msl  
 pH: 4.5  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 60 gal

Time: 12:04  
 Water temperature: 20°C  
 Air temperature: 21.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	5.50	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 67B collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.18E-08±4.92E-09	U			1.34E-08	µCi/mL	ML	RADA-001B
0	Tritium	8.19E-07±3.63E-07	J	I		5.52E-07	µCi/mL	ML	RADA-002

## WELL LFW 67C

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 19.53 ft (5.95 m) below TOC  
 Water elevation: 137.57 ft (41.93 m) msl  
 pH: 6.7  
 Sp. conductance: 234 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 24 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	21.1	J	I		40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<5.60	U	V		1.80	µg/L	WA	EPA6010B
1	Benzene	3.02	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.650	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	1.29	J	IK	O	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 67C collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	27.0	J	K	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<1.10	U	V		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	15.9	J	K	O	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	1.44	J	IK	O	10.0	µg/L	WA	EPA8260B
2	1,1-Dichloroethane	35.0	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	13.6	J	K	O	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<6.30	U	8		5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	20.3	J	K	O	5.00	µg/L	WA	EPA8260B
0	Gross alpha	6.48E-09±4.66E-09	U			1.78E-08	µCi/mL	ML	RADA-001B
1	Tritium	1.21E-05±8.50E-07	U			6.75E-07	µCi/mL	ML	RADA-002

## WELL LFW 67D

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Depth to water: 15.32 ft (4.67 m) below TOC  
 Water elevation: 142.38 ft (43.4 m) msl  
 pH: 5.3  
 Sp. conductance: 27 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 10 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<6.80	U	V		1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	0.520	J	I		4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 67D collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<6.10	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
1	1,1-Dichloroethane	11.0	J	K	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.42	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.46E-09±3.92E-09	U			1.50E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.39E-06±4.13E-07	J	I		5.93E-07	µCi/mL	ML	RADA-002

**WELL LFW 68C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 22.77 ft (6.94 m) below TOC  
 Water elevation: 138.33 ft (42.16 m) msl  
 pH: 5  
 Sp. conductance: 21 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 30 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.40	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 68C collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.30	J	I		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	11.6	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	7.30E-09±4.32E-09	U			1.48E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.77E-06±4.32E-07	U			5.88E-07	µCi/mL	ML	RADA-002

**WELL LFW 68D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Depth to water: 18.32 ft (5.58 m) below TOC  
 Water elevation: 143.08 ft (43.61 m) msl  
 pH: 4.8  
 Sp. conductance: 65 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	10.2	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 68D collected on 04/19/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.750	JU		4	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	5.00	J	I		47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.13E-09±4.01E-09	U			1.76E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.54E-06±4.19E-07	U			5.86E-07	µCi/mL	ML	RADA-002

**WELL LFW 69C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 8.78 ft (2.68 m) below TOC  
 Water elevation: 137.22 ft (41.83 m) msl  
 pH: 4.4  
 Sp. conductance: 53 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 44 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	4.80				1.80	µg/L	WA	EPA6010B

ESH-EMS-20010585

Well LFW 69C collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.12E-08±5.14E-09	U			1.49E-08	µCi/mL	ML	RADA-001B
0	Tritium	7.85E-07±3.65E-07	J	I		5.60E-07	µCi/mL	ML	RADA-002

**WELL LFW 69D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 9.85 ft (3 m) below TOC  
 Water elevation: 136.25 ft (41.53 m) msl  
 pH: 5.1  
 Sp. conductance: 35 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 7 gal

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U		X	10.0	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 69D collected on 06/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.60				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70				4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	1.58	U	I	X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	Chloroethene (Vinyl chloride)	5.37	U	I	X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	2.74	U	I	X	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	2.29	U	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U		X	100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U		X	50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<0.640	U	V		5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.44E-10±1.44E-09	U			9.13E-09	µCi/mL	ML	RADA-001
0	Tritium	2.78E-06±4.90E-07	U			5.91E-07	µCi/mL	ML	RADA-002

**WELL LFW 70C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 10.13 ft (3.09 m) below TOC  
 Water elevation: 135.57 ft (41.32 m) msl  
 pH: 3.6  
 Sp. conductance: 38 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 21 gal

Time: 8:41  
 Water temperature: 19.6°C  
 Air temperature: 21.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	7.92	J	I	X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 70C collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Dichloromethane	4.63	J	I	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFW 70D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 11.05 ft (3.37 m) below TOC  
 Water elevation: 134.05 ft (40.86 m) msl  
 pH: 4  
 Sp. conductance: 21 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 7 gal

Time: 8:51  
 Water temperature: 19.6°C  
 Air temperature: 21.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	5.13	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	2.81	J	I	X	5.00	µg/L	WA	EPA8260B
2	Dichloromethane	5.26	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	10.5	J	I		24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 70D collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.05	J	I	X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL LFW 71B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 9.92 ft (3.02 m) below TOC  
 Water elevation: 137.08 ft (41.78 m) msl  
 pH: 4.4  
 Sp. conductance: 46 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 8:53  
 Water temperature: 18.1°C  
 Air temperature: 9.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	4.50				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<0.860	JU		4	7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well LFW 71B collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	9.59E-09±4.92E-09	U			1.54E-08	µCi/mL	ML	RADA-001B
0	Tritium	5.87E-07±3.56E-07	J	I		5.66E-07	µCi/mL	ML	RADA-002

**WELL LFW 71C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 10.21 ft (3.11 m) below TOC  
 Water elevation: 136.99 ft (41.76 m) msl  
 pH: 4.4  
 Sp. conductance: 36 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 25 gal

Time: 8:32  
 Water temperature: 18.1°C  
 Air temperature: 7.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.70				1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



Well LFW 71C collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.16E-09±3.04E-09	U			1.34E-08	µCi/mL	ML	RADA-001B
0	Tritium	1.14E-06±3.82E-07	J	I		5.54E-07	µCi/mL	ML	RADA-002

**WELL LFW 71D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/20/01  
 Depth to water: 10.71 ft (3.26 m) below TOC  
 Water elevation: 136.69 ft (41.66 m) msl  
 pH: 5.1  
 Sp. conductance: 22 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 9:41  
 Water temperature: 16.1°C  
 Air temperature: 12.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	7.80	U			1.80	µg/L	WA	EPA6010B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chromium, total recoverable	1.10	J	I		7.00	µg/L	WA	EPA6010B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	JU	L	I	0.700	µg/L	WA	EPA7470A
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B

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Well LFW 71D collected on 04/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	-3.26E-10±1.78E-09	U			1.32E-08	µCi/mL	ML	RADA-001B
0	Tritium	7.61E-07±3.63E-07	J	I		5.59E-07	µCi/mL	ML	RADA-002

**WELL MCB 5C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 148.23 ft (45.18 m) below TOC  
 Water elevation: 190.87 ft (58.18 m) msl  
 pH: 7.4  
 Sp. conductance: 122 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 50 gal

Time: 9:31  
 Water temperature: 20.4°C  
 Air temperature: 24.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

**WELL MCB 7C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 147.75 ft (45.03 m) below TOC  
 Water elevation: 189.95 ft (57.9 m) msl  
 pH: 11.4  
 Sp. conductance: 858 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 16:46  
 Water temperature: 20.6°C  
 Air temperature: 39.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 182 mg/L  
 Phenolphthalein alkalinity: 182 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

**WELL MCB 11B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 114.4 ft (34.87 m) below TOC  
 Water elevation: 187.8 ft (57.24 m) msl  
 pH: 4.4  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 11:52  
 Water temperature: 20.6°C  
 Air temperature: 33.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	8.48			X	5.00	µg/L	WA	EPA8260B

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**WELL MCB 11C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 114.41 ft (34.87 m) below TOC  
 Water elevation: 187.89 ft (57.27 m) msl  
 pH: 4.5  
 Sp. conductance: 23 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 11:42  
 Water temperature: 20.2°C  
 Air temperature: 32.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

**WELL MCB 12B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 133.9 ft (40.81 m) below TOC  
 Water elevation: 193.8 ft (59.07 m) msl  
 pH: 4.6  
 Sp. conductance: 36 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 10:53  
 Water temperature: 21.5°C  
 Air temperature: 30.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

**WELL MCB 12C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 133.17 ft (40.59 m) below TOC  
 Water elevation: 195.03 ft (59.45 m) msl  
 pH: 4.4  
 Sp. conductance: 37 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 10:57  
 Water temperature: 21.1°C  
 Air temperature: 30.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

**WELL MCB 13C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 170.77 ft (52.05 m) below TOC  
 Water elevation: 186.13 ft (56.73 m) msl  
 pH: 5.3  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 10 gal

Time: 9:46  
 Water temperature: 21.3°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	7.13				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	10.3				5.00	µg/L	WA	EPA8260B

**WELL MCB 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Depth to water: 127.15 ft (38.76 m) below TOC  
 Water elevation: 180.05 ft (54.88 m) msl  
 pH: 5.2  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 12:06  
 Water temperature: 21.1°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 1 mg/L  
 Field Qualifier(s): RCV

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	10.7				5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	4.59	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	211		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	219				10.0	µg/L	WA	EPA8260B

**WELL MCB 14C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 127.55 ft (38.88 m) below TOC  
 Water elevation: 179.95 ft (54.85 m) msl  
 pH: 4.6  
 Sp. conductance: 17 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 9:51  
 Water temperature: 20.6°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Lead, total recoverable	23.9				5.00	µg/L	GE	EPA6010B
0	Lead, total recoverable	21.9	J	I		24.0	µg/L	WA	EPA6010B
0	Tetrachloroethylene	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.44			X	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	6.74			X	5.00	µg/L	WA	EPA8260B

**WELL MCB 14C Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 127.55 ft (38.88 m) below TOC  
 Water elevation: 179.95 ft (54.85 m) msl  
 pH: 4.6  
 Sp. conductance: 17 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 15 gal

Time: 9:51  
 Water temperature: 20.6°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Lead, total recoverable	72.5				24.0	µg/L	WA	EPA6010B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.43				5.00	µg/L	WA	EPA8260B



**WELL MCB 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 167.81 ft (51.15 m) below TOC  
 Water elevation: Not available  
 pH: 4.9  
 Sp. conductance: 19 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 76 gal

Time: 9:19  
 Water temperature: 20.1°C  
 Air temperature: 26.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	3.28	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL MCB 15C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 166.55 ft (50.77 m) below TOC  
 Water elevation: Not available  
 pH: 4.8  
 Sp. conductance: 51 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 33 gal

Time: 11:02  
 Water temperature: 21.5°C  
 Air temperature: 30°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	38.1			X	5.00	µg/L	WA	EPA8260B
2	Lead, total recoverable	146				24.0	µg/L	WA	EPA6010B
2	Tetrachloroethylene	11.6			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	237		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	234				10.0	µg/L	WA	EPA8260B

**WELL MCB 16B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 177.78 ft (54.19 m) below TOC  
 Water elevation: Not available  
 pH: 5.4  
 Sp. conductance: 17 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 74 gal

Time: 15:06  
 Water temperature: 20.8°C  
 Air temperature: 30.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.98	J	I		5.00	µg/L	WA	EPA8260B

**WELL MCB 17B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 105.65 ft (32.2 m) below TOC  
 Water elevation: Not available  
 pH: 5.8  
 Sp. conductance: 23 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 97 gal

Time: 16:13  
 Water temperature: 20°C  
 Air temperature: 28.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	17.2				5.00	µg/L	WA	EPA8260B

**WELL MCB 18B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/11/01  
 Depth to water: 131.73 ft (40.15 m) below TOC  
 Water elevation: Not available  
 pH: 6.1  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 84 gal

Time: 17:26  
 Water temperature: 20.4°C  
 Air temperature: 25.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MCB 19B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 145.68 ft (44.4 m) below TOC  
 Water elevation: Not available  
 pH: 5.2  
 Sp. conductance: 18 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 93 gal

Time: 16:16  
 Water temperature: 19.7°C  
 Air temperature: 36.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.39	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL MCB 20B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 142.78 ft (43.52 m) below TOC  
 Water elevation: Not available  
 pH: 5.6  
 Sp. conductance: 19 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 64 gal

Time: 16:32  
 Water temperature: 21.5°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B



Well MCB 20B collected on 06/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.70	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL MCB 21B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 175.47 ft (53.48 m) below TOC  
 Water elevation: Not available  
 pH: 5.4  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:38  
 Water temperature: 26.8°C  
 Air temperature: 34°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	13.0			X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	12.1			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	69.1			X	5.00	µg/L	WA	EPA8260B

**WELL MCB 21C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 175.49 ft (53.49 m) below TOC  
 Water elevation: Not available  
 pH: 7.4  
 Sp. conductance: 262 µS/cm  
 Turbidity: 30 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:24  
 Water temperature: 26.9°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 92 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	5.61			X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.18	J	I	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	30.9			X	5.00	µg/L	WA	EPA8260B

**WELL MCB 22B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 138.71 ft (42.28 m) below TOC  
 Water elevation: Not available  
 pH: 5.7  
 Sp. conductance: 23 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:50  
 Water temperature: 27.1°C  
 Air temperature: 38.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 2 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.75	J	IK	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	25.8	J	K	OX	5.00	µg/L	WA	EPA8260B

**WELL MCB 22C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 137.15 ft (41.8 m) below TOC  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:30  
 Water temperature: 24.5°C  
 Air temperature: 33.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 4 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	7.91				5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	2.35	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	63.4				5.00	µg/L	WA	EPA8260B

**WELL MCB 23B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 172.19 ft (52.48 m) below TOC  
 Water elevation: Not available  
 pH: 9.2  
 Sp. conductance: 79 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 13:32  
 Water temperature: 22.1°C  
 Air temperature: 36.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 31 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	7.68			X	5.00	µg/L	WA	EPA8260B

**WELL MCB 24B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 1294 ft (394.42 m) below TOC  
 Water elevation: Not available  
 pH: 5.1  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:15  
 Water temperature: 25.5°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 1 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	10.4				5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.06	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	153				5.00	µg/L	WA	EPA8260B

**WELL MCB 24C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 129.41 ft (39.44 m) below TOC  
 Water elevation: Not available  
 pH: 5.4  
 Sp. conductance: 20 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:00  
 Water temperature: 26.1°C  
 Air temperature: 3.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 1 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.35	J	I		5.00	µg/L	WA	EPA8260B



Well MCB 24C2 collected on 06/14/01 (cont.)

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
2	Trichloroethylene	19.4			5.00		µg/L	WA	EPA8260B

**WELL MCB 25B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 115.85 ft (35.31 m) below TOC  
 Water elevation: Not available  
 pH: 6.1  
 Sp. conductance: 45 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 103 gal

Time: 15:21  
 Water temperature: 22.2°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 18 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B

**WELL MCB 26B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 106.24 ft (32.38 m) below TOC  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: 15 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:35  
 Water temperature: 23.5°C  
 Air temperature: 27.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.10			X	5.00	µg/L	WA	EPA8260B

**WELL MCB 26C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 106.13 ft (32.35 m) below TOC  
 Water elevation: Not available  
 pH: 5.1  
 Sp. conductance: 15 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:12  
 Water temperature: 23.5°C  
 Air temperature: 33.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	7.93				5.00	µg/L	WA	EPA8260B

**WELL MCB 27B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 76.55 ft (23.33 m) below TOC  
 Water elevation: Not available  
 pH: 5.1  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 103 gal

Time: 14:18  
 Water temperature: 20.7°C  
 Air temperature: 36.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MCB 28B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 70.59 ft (21.52 m) below TOC  
 Water elevation: Not available  
 pH: 5.9  
 Sp. conductance: 33 µS/cm  
 Turbidity: 10 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:30  
 Water temperature: 21.6°C  
 Air temperature: 26.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 14 mg/L

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MCB 28C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 70.32 ft (21.43 m) below TOC  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 30 µS/cm  
 Turbidity: 15 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:00  
 Water temperature: 22.3°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 4 mg/L

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.26	J	I		5.00	µg/L	WA	EPA8260B

**WELL MSB 18B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 125.6 ft (38.28 m) below TOC  
 Water elevation: 216.5 ft (65.99 m) msl  
 pH: 5.3  
 Sp. conductance: 84 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 14:06  
 Water temperature: 22.6°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 13 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B



Well MSB 18BB collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tetrachloroethylene	16.3				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	5.30				5.00	µg/L	WA	EPA8260B

**WELL MSB 18C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: 119.97 ft (36.57 m) below TOC  
 Water elevation: 222.53 ft (67.83 m) msl  
 pH: 6.2  
 Sp. conductance: 37 µS/cm  
 Turbidity: 3 NTU  
 No water was evacuated from the well prior to sampling.  
 The well went dry during purging.

Time: 15:43  
 Water temperature: 27.5°C  
 Air temperature: 34.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X8	5.00	µg/L	WA	EPA8260B

**WELL MSB 23TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 178 ft (54.26 m) below TOC  
 Water elevation: Not available  
 pH: 7.5  
 Sp. conductance: 166 µS/cm  
 Turbidity: 42 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:27  
 Water temperature: 22.4°C  
 Air temperature: 24.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 30 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	24.4			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL MSB 38TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 165.7 ft (50.51 m) below TOC  
 Water elevation: Not available  
 pH: 7.2  
 Sp. conductance: 61 µS/cm  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: 11:01  
 Water temperature: 27.4°C  
 Air temperature: 38.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 46 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MSB 38TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 165.51 ft (50.45 m) below TOC  
 Water elevation: Not available  
 pH: 7  
 Sp. conductance: 29 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:36  
 Water temperature: 24.9°C  
 Air temperature: 40.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 29 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	4.18	J	I		10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	U		8	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<10.0	U		8	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<1.00	U			1.00	µg/L	ML	EPA8260B

**WELL MSB 38TB Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: 165.51 ft (50.45 m) below TOC  
 Water elevation: Not available  
 pH: 7  
 Sp. conductance: 29 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:36  
 Water temperature: 24.9°C  
 Air temperature: 40.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 29 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B



**WELL MSB 40B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 120.81 ft (36.82 m) below TOC  
 Water elevation: 200.89 ft (61.23 m) msl  
 pH: 4.7  
 Sp. conductance: 83 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 89 gal

Time: 13:41  
 Water temperature: 22.3°C  
 Air temperature: 37.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	39.5				5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	879		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	1,380				50.0	µg/L	WA	EPA8260B

**WELL MSB 40C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 118.65 ft (36.16 m) below TOC  
 Water elevation: 203.35 ft (61.98 m) msl  
 pH: 5.2  
 Sp. conductance: 46 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 31 gal

Time: 14:37  
 Water temperature: 22.3°C  
 Air temperature: 38.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.13	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	50.1				5.00	µg/L	WA	EPA8260B

**WELL MSB 42TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 77 µS/cm  
 Turbidity: 27 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:20  
 Water temperature: 23.9°C  
 Air temperature: 29.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 54 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	6.52				5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	78.6				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	364		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	351				10.0	µg/L	WA	EPA8260B

**WELL MSB 42TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 175.49 ft (53.49 m) below TOC  
 Water elevation: Not available  
 pH: 5.7  
 Sp. conductance: 75 µS/cm  
 Turbidity: 54 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:54  
 Water temperature: 26.2°C  
 Air temperature: 37.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 39 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.71	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	18.0				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	226		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	237				25.0	µg/L	WA	EPA8260B

**WELL MSB 49B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 135.45 ft (41.29 m) below TOC  
 Water elevation: 198.65 ft (60.55 m) msl  
 pH: 5.3  
 Sp. conductance: 71 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 177 gal

Time: 12:36  
 Water temperature: 21.4°C  
 Air temperature: 35.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	U		X	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.95			X	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	2.52	J	I		5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	92.0			X	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	82.8				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	169			X	5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	136				5.00	µg/L	WA	EPA8260B

**WELL MSB 49B Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 135.45 ft (41.29 m) below TOC  
 Water elevation: 198.65 ft (60.55 m) msl  
 pH: 5.3  
 Sp. conductance: 71 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 177 gal

Time: 12:36  
 Water temperature: 21.4°C  
 Air temperature: 35.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.51	J	I		5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	78.4				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	131				5.00	µg/L	WA	EPA8260B



**WELL MSB 52TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 114.05 ft (34.76 m) below TOC  
 Water elevation: Not available  
 pH: 6.3  
 Sp. conductance: 37 µS/cm  
 Turbidity: 17 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:00  
 Water temperature: 20.7°C  
 Air temperature: 23.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 10 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	32.3				5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	35.2				5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.27	J	I		5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.38	J	I		5.00	µg/L	WA	EPA8260B

**WELL MSB 52TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 116.37 ft (35.47 m) below TOC  
 Water elevation: Not available  
 pH: 6.6  
 Sp. conductance: 45 µS/cm  
 Turbidity: 36 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:38  
 Water temperature: 20.3°C  
 Air temperature: 24.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 12 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.62	J	I		5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	46.9				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	20.4				5.00	µg/L	WA	EPA8260B

**WELL MSB 52TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 113.53 ft (34.6 m) below TOC  
 Water elevation: Not available  
 pH: 6.4  
 Sp. conductance: 64 µS/cm  
 Turbidity: 44 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:08  
 Water temperature: 23°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 25 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	13.5			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	15.4			X	5.00	µg/L	WA	EPA8260B

**WELL MSB 73B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Depth to water: 142.41 ft (43.41 m) below TOC  
 Water elevation: 197.19 ft (60.1 m) msl  
 pH: 4.4  
 Sp. conductance: 42 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 123 gal

Time: 11:53  
 Water temperature: 20.2°C  
 Air temperature: 30°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.34	J	I		5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	22.6				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	50.2				5.00	µg/L	WA	EPA8260B

**WELL MSB 75B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Depth to water: 120.45 ft (36.71 m) below TOC  
 Water elevation: 206.25 ft (62.87 m) msl  
 pH: 6.4  
 Sp. conductance: 115 µS/cm  
 Turbidity: 11 NTU  
 Water evacuated from the well prior to sampling: 81 gal

Time: 16:26  
 Water temperature: 23.2°C  
 Air temperature: 33.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 21 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
1	cis-1,2-Dichloroethylene	43.9				5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	1,090		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	1,510				125	µg/L	WA	EPA8260B

**WELL MSB 75C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 121.17 ft (36.93 m) below TOC  
 Water elevation: 206.33 ft (62.89 m) msl  
 pH: 5.9  
 Sp. conductance: 67 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 35 gal

Time: 11:11  
 Water temperature: 25.4°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 10 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.19	J	I		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	6.54				5.00	µg/L	WA	EPA8260B



**WELL MSB 86TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 133.67 ft (40.74 m) below TOC  
 Water elevation: Not available  
 pH: 5.8  
 Sp. conductance: 22 µS/cm  
 Turbidity: 4 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:34  
 Water temperature: 22.1°C  
 Air temperature: 31.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 3 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL MSB 86TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: 137.37 ft (41.87 m) below TOC  
 Water elevation: Not available  
 pH: 5.3  
 Sp. conductance: 39 µS/cm  
 Turbidity: 49 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:42  
 Water temperature: 30.1°C  
 Air temperature: 40.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 43 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MSB 86TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 137.31 ft (41.85 m) below TOC  
 Water elevation: Not available  
 pH: 6.5  
 Sp. conductance: 98 µS/cm  
 Turbidity: 30 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:00  
 Water temperature: 22.6°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 21 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL MSB 93TA**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 121.22 ft (36.95 m) below TOC  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: 48 µS/cm  
 Turbidity: 25 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:00  
 Water temperature: 22.8°C  
 Air temperature: 31°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 13 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MSB 93TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 120.96 ft (36.87 m) below TOC  
 Water elevation: Not available  
 pH: 5.8  
 Sp. conductance: 96 µS/cm  
 Turbidity: 5 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:32  
 Water temperature: 21.3°C  
 Air temperature: 24°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 40 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	26.7	J	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O8	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<10.0	JU	L	O8	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	0.510	J	IL	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	0.910	J	IL	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B



Well MSB 93TB collected on 05/23/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	2.62	J	L	O	1.00	µg/L	ML	EPA8260B

**WELL MSB 93TB Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Depth to water: 120.42 ft (36.7 m) below TOC  
 Water elevation: Not available  
 pH: 6  
 Sp. conductance: 70 µS/cm  
 Turbidity: 19 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:35  
 Water temperature: 20.8°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 26 mg/L  
 Field Qualifier(s): RC

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MSB 94TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Depth to water: 101.7 ft (31 m) below TOC  
 Water elevation: Not available  
 pH: 6.5  
 Sp. conductance: 71 µS/cm  
 Turbidity: 7 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:05  
 Water temperature: 29.4°C  
 Air temperature: 42°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 24 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL MSB 95TB**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Depth to water: 154.56 ft (47.11 m) below TOC  
 Water elevation: Not available  
 pH: 6.4  
 Sp. conductance: 36 µS/cm  
 Turbidity: 9 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:02  
 Water temperature: 19.7°C  
 Air temperature: 21.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 16 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Well MSB 95TB collected on 05/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL P 26A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 36.28 ft (11.06 m) below TOC  
 Water elevation: 117.72 ft (35.88 m) msl  
 pH: 5.4  
 Sp. conductance: 38 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 160 gal

Time: 9:52  
 Water temperature: 20.7°C  
 Air temperature: 24.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL P 26B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 48.21 ft (14.69 m) below TOC  
 Water elevation: 105.89 ft (32.28 m) msl  
 pH: 6.2  
 Sp. conductance: 79 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 67 gal

Time: 9:27  
 Water temperature: 20.3°C  
 Air temperature: 23.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 23 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

**WELL P 26D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 40.53 ft (12.35 m) below TOC  
 Water elevation: 113.37 ft (34.56 m) msl  
 pH: 5.9  
 Sp. conductance: 45 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 36 gal

Time: 10:27  
 Water temperature: 20.2°C  
 Air temperature: 25.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

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**WELL PRP 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 33.3 ft (10.15 m) below TOC  
 Water elevation: 249.1 ft (75.93 m) msl  
 pH: 5.2  
 Sp. conductance: 36 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 5 gal

Time: 14:54  
 Water temperature: 24.1°C  
 Air temperature: 36.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	0.720	J	IL	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	1,1-Dichloroethane	34.9	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	1,1-Dichloroethylene	32.4	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	7.37	J	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	Tetrachloroethylene	4.14	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	36.5	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Trichloroethylene	15.8	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	3.75E-06±4.93E-07				5.34E-07	µCi/mL	ML	RADA-002

**WELL PRP 7 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

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Well PRP 7 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	5.35	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	1,1-Dichloroethylene	5.24	J	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	2.38	J	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	Tetrachloroethylene	3.19	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	0.910	J	IL	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	Trichloroethylene	3.39	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tritium	4.16E-06±5.49E-07				5.92E-07	µCi/mL	ML	RADA-002

**WELL PRP 7**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	5.98	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	1,1-Dichloroethylene	6.08	J	L	IO	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	2.55	J	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	Tetrachloroethylene	3.12	J	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	1.02	J	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
1	Trichloroethylene	3.88	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

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Second Quarter 2001



Well PRP 7 collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	4.02E-06±5.50E-07				6.03E-07	µCi/mL	ML	RADA-002
0	Tritium	4.22E-06±5.66E-07				6.15E-07	µCi/mL	ML	RADA-002

**WELL PSB 1A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 59.36 ft (18.09 m) below TOC  
 Water elevation: 269.74 ft (82.22 m) msl  
 pH: 5.8  
 Sp. conductance: 41 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 20 gal

Time: 11:28  
 Water temperature: 23.9°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	5.83E-09±6.00E-09	U			1.14E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-3.08E-11±4.08E-09	U			7.30E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	-6.16E-09±1.33E-08	U			2.23E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	6.05E-09±6.99E-09	U			7.63E-09	µCi/mL	GP	RADA-013
0	Cesium-134	3.49E-10±1.58E-09	U			2.51E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.13E-09±1.31E-09	U			2.91E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	2.49E-09±1.46E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Europium-152	5.00E-09±4.75E-09	U			8.51E-09	µCi/mL	GP	RADA-013
0	Europium-154	1.64E-09±4.27E-09	U			7.49E-09	µCi/mL	GP	RADA-013
0	Europium-155	7.63E-10±5.79E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Iodine-129	2.52E-10±5.25E-10	U			8.87E-10	µCi/mL	GP	RADA-006
0	Lead-212	2.58E-09±5.02E-09	U			6.03E-09	µCi/mL	GP	RADA-013
0	Potassium-40	3.30E-08±1.95E-08	U			4.10E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-5.80E-10±1.99E-09	U			3.48E-09	µCi/mL	GP	RADA-013
0	Strontium-90	1.87E-09±4.30E-10	U		5	6.95E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-7.77E-10±9.55E-09	U			2.36E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.05E-09±3.18E-09	R		4	3.49E-09	µCi/mL	GP	RADA-013

**WELL PSB 2A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 54.35 ft (16.57 m) below TOC  
 Water elevation: 269.35 ft (82.1 m) msl  
 pH: 5  
 Sp. conductance: 65 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 10:31  
 Water temperature: 21.3°C  
 Air temperature: 31.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	7.98E-09±7.14E-09	U			1.46E-08	µCi/mL	GP	RADA-013
0	Actinium-228	9.19E-10±8.03E-09	U			9.95E-09	µCi/mL	GP	RADA-013
0	Antimony-125	3.45E-09±5.55E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Antimony-125	2.42E-09±4.23E-09	U			7.72E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	8.98E-10±1.44E-08	U			2.67E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	3.43E-09±1.37E-08	U			2.40E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	3.93E-09±6.19E-09	U			8.99E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.88E-09±3.20E-09	U			6.07E-09	µCi/mL	GP	RADA-013
0	Cesium-134	8.79E-10±1.99E-09	U			3.36E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-2.21E-09±1.62E-09	U			2.48E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-1.00E-09±2.04E-09	U			3.53E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.22E-10±1.64E-09	U			2.86E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-6.81E-10±2.01E-09	U			3.51E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-7.11E-10±1.72E-09	U			2.92E-09	µCi/mL	GP	RADA-013
0	Europium-152	-9.58E-10±5.94E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Europium-152	-3.20E-09±4.45E-09	U			7.55E-09	µCi/mL	GP	RADA-013
0	Europium-154	8.60E-09±4.05E-09	U			1.00E-08	µCi/mL	GP	RADA-013
0	Europium-154	3.16E-09±4.52E-09	U			8.80E-09	µCi/mL	GP	RADA-013
0	Europium-155	-4.14E-09±7.64E-09	U			1.31E-08	µCi/mL	GP	RADA-013
0	Europium-155	9.55E-10±5.95E-09	U			1.03E-08	µCi/mL	GP	RADA-013
0	Iodine-129	7.11E-11±3.42E-10	U			6.42E-10	µCi/mL	GP	RADA-006
0	Lead-212	7.64E-09±4.04E-09	R		4	7.64E-09	µCi/mL	GP	RADA-013
0	Lead-212	1.16E-08±3.69E-09	R		4	6.51E-09	µCi/mL	GP	RADA-013
0	Potassium-40	1.76E-08±1.96E-08	U			4.21E-08	µCi/mL	GP	RADA-013
0	Potassium-40	9.78E-09±3.85E-08	U			2.54E-08	µCi/mL	GP	RADA-013

ESH-EMS-20010585

Well PSB 2A collected on 05/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Promethium-146	1.96E-09±2.50E-09	U			4.76E-09	µCi/mL	GP	RADA-013
0	Promethium-146	-8.48E-10±1.80E-09	U			3.06E-09	µCi/mL	GP	RADA-013
0	Strontium-90	9.39E-10±3.96E-10	J	IK	I	7.23E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.78E-09±8.36E-09	U			2.00E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.60E-09±3.01E-09	U			4.66E-09	µCi/mL	GP	RADA-013
0	Thallium-208	7.92E-10±3.44E-09	U			3.47E-09	µCi/mL	GP	RADA-013

**WELL PSB 3A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 54.82 ft (16.71 m) below TOC  
 Water elevation: 263.78 ft (80.4 m) msl  
 pH: 5.4  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 14:05  
 Water temperature: 23.5°C  
 Air temperature: 36.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	6.20E-09±4.91E-09	U		6	9.50E-09	µCi/mL	GP	RADA-013
0	Antimony-125	4.36E-10±3.45E-09	U			5.89E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	4.96E-09±1.02E-08	U			1.89E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	3.97E-09±4.97E-09	U		6	4.15E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-5.90E-10±1.31E-09	U			1.97E-09	µCi/mL	GP	RADA-013
0	Cesium-137	6.51E-11±1.07E-09	U			1.96E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-3.65E-10±1.46E-09	U			2.28E-09	µCi/mL	GP	RADA-013
0	Europium-152	-8.40E-10±3.72E-09	U			6.21E-09	µCi/mL	GP	RADA-013
0	Europium-154	3.82E-09±4.00E-09	U			7.81E-09	µCi/mL	GP	RADA-013
0	Europium-155	2.54E-10±4.67E-09	U			8.19E-09	µCi/mL	GP	RADA-013
0	Iodine-129	2.13E-10±7.18E-10	U			1.35E-09	µCi/mL	GP	RADA-006
0	Iodine-129	-3.90E-10±9.76E-10	U			1.75E-09	µCi/mL	GP	RADA-006
0	Lead-212	4.12E-09±4.84E-09	U			4.97E-09	µCi/mL	GP	RADA-013
0	Potassium-40	2.63E-08±1.64E-08	U		6	3.37E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.01E-09±2.20E-09	U			2.95E-09	µCi/mL	GP	RADA-013
0	Strontium-90	5.35E-11±2.75E-10	U			6.43E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-3.32E-09±8.12E-09	U			2.07E-08	µCi/mL	GP	RADA-005
0	Technetium-99	-4.73E-09±8.51E-09	U			2.20E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.15E-09±1.39E-09	U			2.62E-09	µCi/mL	GP	RADA-013

**WELL PSB 3A Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 54.82 ft (16.71 m) below TOC  
 Water elevation: 263.78 ft (80.4 m) msl  
 pH: 5.4  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 14:05  
 Water temperature: 23.5°C  
 Air temperature: 36.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	9.84E-09±5.10E-09	R		4	9.81E-09	µCi/mL	GP	RADA-013
0	Antimony-125	1.60E-09±3.32E-09	U			5.79E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	6.89E-09±9.23E-09	U			1.73E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	3.09E-09±4.89E-09	U		6	4.87E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-3.50E-10±1.20E-09	U			1.82E-09	µCi/mL	GP	RADA-013
0	Cesium-137	3.52E-10±2.65E-09	U			1.94E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	7.31E-10±1.54E-09	U			2.61E-09	µCi/mL	GP	RADA-013
0	Europium-152	-5.26E-10±3.88E-09	U			6.51E-09	µCi/mL	GP	RADA-013
0	Europium-154	-1.34E-09±3.53E-09	U			6.22E-09	µCi/mL	GP	RADA-013
0	Europium-155	-5.18E-10±4.60E-09	U			8.15E-09	µCi/mL	GP	RADA-013
2	Iodine-129	1.32E-09±6.45E-10	R		4	8.51E-10	µCi/mL	GP	RADA-006
0	Lead-212	2.04E-09±4.32E-09	U			3.89E-09	µCi/mL	GP	RADA-013
0	Potassium-40	3.47E-10±2.84E-08	U		6	2.32E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-6.11E-10±1.71E-09	U			2.79E-09	µCi/mL	GP	RADA-013
0	Strontium-90	-1.97E-10±2.38E-10	U			6.32E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.72E-08±1.06E-08	U			2.20E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.25E-09±1.42E-09	U			2.71E-09	µCi/mL	GP	RADA-013

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Second Quarter 2001



## WELL PSB 4A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 44.96 ft (13.7 m) below TOC  
 Water elevation: 267.54 ft (81.55 m) msl  
 pH: 4.7  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 28 gal

Time: 15:42  
 Water temperature: 23.7°C  
 Air temperature: 39.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	6.94E-09±4.98E-09	U			9.64E-09	µCi/mL	GP	RADA-013
0	Antimony-125	1.53E-09±3.61E-09	U			6.55E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	8.41E-09±1.05E-08	U			1.94E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.17E-08±5.73E-09	R		4	8.55E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-1.02E-09±1.29E-09	U			2.13E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-8.42E-10±1.35E-09	U			2.24E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	5.35E-10±1.57E-09	U			2.91E-09	µCi/mL	GP	RADA-013
0	Europium-152	-2.18E-09±4.09E-09	U			6.58E-09	µCi/mL	GP	RADA-013
0	Europium-154	3.71E-09±3.68E-09	U			7.44E-09	µCi/mL	GP	RADA-013
0	Europium-155	2.46E-09±5.13E-09	U			9.05E-09	µCi/mL	GP	RADA-013
0	Iodine-129	2.04E-10±4.70E-10	U			9.50E-10	µCi/mL	GP	RADA-006
0	Lead-212	4.52E-09±2.77E-09	U			4.94E-09	µCi/mL	GP	RADA-013
0	Potassium-40	5.46E-08±5.50E-08	R		4	2.53E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-4.72E-10±1.75E-09	U			3.04E-09	µCi/mL	GP	RADA-013
0	Strontium-90	1.06E-10±3.01E-10	U			6.93E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-1.61E-09±8.64E-09	U			2.16E-08	µCi/mL	GP	RADA-005
0	Thallium-208	2.42E-09±1.58E-09	U			3.00E-09	µCi/mL	GP	RADA-013

## WELL PSB 5A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Depth to water: 50.61 ft (15.43 m) below TOC  
 Water elevation: 268.69 ft (81.9 m) msl  
 pH: 5.5  
 Sp. conductance: 60 µS/cm  
 Turbidity: 10 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 11:55  
 Water temperature: 23.6°C  
 Air temperature: 37.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	4.50E-09±5.50E-09	U			1.02E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-5.83E-10±3.58E-09	U			6.34E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.51E-08±1.15E-08	U			2.20E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	6.68E-09±5.56E-09	J		I	4.51E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-5.43E-10±1.51E-09	U			2.26E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.50E-09±1.39E-09	U			2.45E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.28E-09±1.49E-09	U			2.76E-09	µCi/mL	GP	RADA-013
0	Europium-152	1.24E-09±4.31E-09	U			7.31E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.65E-09±4.68E-09	U			6.76E-09	µCi/mL	GP	RADA-013
0	Europium-155	6.60E-09±5.80E-09	U			9.20E-09	µCi/mL	GP	RADA-013
0	Iodine-129	4.69E-10±5.04E-10	U			1.06E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.49E-09±4.44E-09	U			4.93E-09	µCi/mL	GP	RADA-013
0	Potassium-40	2.26E-08±2.89E-08	U			2.85E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-4.95E-10±1.86E-09	U			3.26E-09	µCi/mL	GP	RADA-013
0	Strontium-90	-1.40E-10±2.50E-10	U			6.40E-10	µCi/mL	GP	RADA-004
0	Technetium-99	1.81E-09±8.63E-09	U			2.07E-08	µCi/mL	GP	RADA-005
0	Thallium-208	8.82E-10±2.84E-09	U			3.10E-09	µCi/mL	GP	RADA-013

## WELL PSB 6A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 54.03 ft (16.47 m) below TOC  
 Water elevation: 270.17 ft (82.35 m) msl  
 pH: 4.6  
 Sp. conductance: 40 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 18 gal

Time: 15:41  
 Water temperature: 25°C  
 Air temperature: 35.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	4.06E-09±5.21E-09	U			1.01E-08	µCi/mL	GP	RADA-013
0	Antimony-125	-5.80E-10±3.84E-09	U			6.74E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	1.12E-08±1.10E-08	U			2.09E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	1.34E-09±4.73E-09	U			5.59E-09	µCi/mL	GP	RADA-013
0	Cesium-134	2.17E-11±1.29E-09	U			2.26E-09	µCi/mL	GP	RADA-013
0	Cesium-137	-3.01E-10±1.39E-09	U			2.38E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	1.51E-09±1.46E-09	U			2.97E-09	µCi/mL	GP	RADA-013
0	Europium-152	-2.22E-09±3.87E-09	U			6.69E-09	µCi/mL	GP	RADA-013
0	Europium-154	-7.68E-10±3.99E-09	U			7.10E-09	µCi/mL	GP	RADA-013
0	Europium-155	3.41E-09±5.37E-09	U			9.62E-09	µCi/mL	GP	RADA-013
0	Iodine-129	-4.65E-11±6.06E-10	U			1.12E-09	µCi/mL	GP	RADA-006
0	Lead-212	2.77E-09±2.74E-09	U			4.80E-09	µCi/mL	GP	RADA-013
0	Potassium-40	2.03E-08±3.70E-08	U			2.88E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-2.33E-10±1.68E-09	U			2.96E-09	µCi/mL	GP	RADA-013
0	Strontium-90	1.42E-10±4.01E-10	R	L	I	8.94E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-6.17E-09±7.59E-09	U			2.02E-08	µCi/mL	GP	RADA-005
0	Thallium-208	5.10E-10±3.32E-09	U			2.94E-09	µCi/mL	GP	RADA-013

## WELL PSB 7A

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Depth to water: 65.22 ft (19.88 m) below TOC  
 Water elevation: 265.48 ft (80.92 m) msl  
 pH: 5.2  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 38 gal

Time: 12:55  
 Water temperature: 23.5°C  
 Air temperature: 34.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	4.32E-09±6.29E-09	U			9.74E-09	µCi/mL	GP	RADA-013
0	Antimony-125	6.54E-10±3.66E-09	U			6.43E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	-3.05E-09±1.04E-08	U			1.74E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	2.48E-09±5.19E-09	U			5.59E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-1.04E-09±1.58E-09	U			2.22E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.54E-09±1.42E-09	U			2.62E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.26E-10±1.40E-09	U			2.48E-09	µCi/mL	GP	RADA-013
0	Europium-152	1.70E-09±3.91E-09	U			6.97E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.11E-09±3.91E-09	U			6.61E-09	µCi/mL	GP	RADA-013
0	Europium-155	-2.28E-09±5.45E-09	U			8.96E-09	µCi/mL	GP	RADA-013
0	Iodine-129	-3.09E-10±4.82E-10	U			8.31E-10	µCi/mL	GP	RADA-006
0	Lead-212	5.56E-09±3.03E-09	R		4	4.78E-09	µCi/mL	GP	RADA-013
0	Potassium-40	5.11E-08±2.23E-08	J		I	2.54E-08	µCi/mL	GP	RADA-013
0	Promethium-146	-7.15E-10±1.78E-09	U			3.01E-09	µCi/mL	GP	RADA-013
0	Strontium-90	1.61E-10±2.53E-10	U			5.62E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-2.70E-10±8.57E-09	U			2.11E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.11E-09±2.21E-09	J		I	2.38E-09	µCi/mL	GP	RADA-013



## WELL RWM 1

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 179.92 ft (54.84 m) below TOC  
 Water elevation: 184.78 ft (56.32 m) msl  
 pH: 4.8  
 Sp. conductance: 42 µS/cm  
 Turbidity: 2 NTU  
 The well was continuously pumping.

Time: 7:50  
 Water temperature: 17.9°C  
 Air temperature: 14.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<500	JU	L	O	500	µg/L	ML	EPA8260B
0	Benzene	0.236	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Benzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Carbon disulfide	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Carbon tetrachloride	0.294	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chlorobenzene	0.850	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.683	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloroform	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	0.898	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
2	1,1-Dichloroethylene	8.56	J	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
1	1,2-Dichloroethylene	37.0	J	IL	O	50.0	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	37.0	J	L	O	50.0	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<500	JU	L	O	500	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	2-Hexanone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Styrene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	0.187	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
2	Tetrachloroethylene	4,380	J	L	O	100	µg/L	GE	EPA8260B
2	Tetrachloroethylene	5,640	J	L	O	50.0	µg/L	ML	EPA8260B
0	Toluene	0.276	J	IL	IO	1.00	µg/L	GE	EPA8260B
0	Toluene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	26.2	J	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	38.0	J	IL	O	50.0	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	0.974	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
2	Trichloroethylene	5,700	J	L	O	100	µg/L	GE	EPA8260B
2	Trichloroethylene	6,990	J	L	O	50.0	µg/L	ML	EPA8260B

Well RWM 1 collected on 04/30/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vinyl acetate	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Xylenes	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B

## WELL RWM 1 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/30/01  
 Depth to water: 179.92 ft (54.84 m) below TOC  
 Water elevation: 184.78 ft (56.32 m) msl  
 pH: 4.8  
 Sp. conductance: 42 µS/cm  
 Turbidity: 2 NTU  
 The well was continuously pumping.

Time: 7:50  
 Water temperature: 17.9°C  
 Air temperature: 14.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	0.238	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.330	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	0.888	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.696	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	0.960	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	1,1-Dichloroethylene	9.07	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	0.176	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	4,340	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	0.291	J	IL	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	27.4	J	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	1.05	J	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	5,490	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B



**WELL RWM 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 175.54 ft (53.51 m) below TOC  
 Water elevation: 189.16 ft (57.66 m) msl  
 pH: 5  
 Sp. conductance: 43 µS/cm  
 Turbidity: 2 NTU  
 The well was continuously pumping.

Time: 13:16  
 Water temperature: 22.1°C  
 Air temperature: 32.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromodichloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromoform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromomethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chlorobenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	Chloroform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Dibromochloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Dichloromethane	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Ethylbenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
2	Tetrachloroethylene	3,790	J	L	O	200	µg/L	GE	EPA8260B
0	Toluene	58.8	J	IL	O	200	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
2	Trichloroethylene	7,650	J	L	O	200	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B

**WELL RWM 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 177.99 ft (54.25 m) below TOC  
 Water elevation: 186.71 ft (56.91 m) msl  
 pH: 4.5  
 Sp. conductance: 46 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 12:49  
 Water temperature: 21.7°C  
 Air temperature: 33.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	0.384	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.389	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	1.04	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.556	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	0.590	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	1,1-Dichloroethylene	5.99	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well RWM 1 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	0.584	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	8,590	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	<0.815	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	15.0	J	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	1.72	J	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	9,760	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 170.2 ft (51.88 m) below TOC  
 Water elevation: 206.8 ft (63.03 m) msl  
 pH: 4.8  
 Sp. conductance: 48 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 9:40  
 Water temperature: 20.1°C  
 Air temperature: 21.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromoform	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	U			50.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<250	U			250	µg/L	GE	EPA8260B
0	Chloroform	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Dichloromethane	<250	U			250	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1,100	U			50.0	µg/L	GE	EPA8260B
0	Toluene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
2	Trichloroethylene	3,690	U			50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<50.0	U			50.0	µg/L	GE	EPA8260B

**WELL RWM 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.9  
 Sp. conductance: 48 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 11:37  
 Water temperature: 24.1°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromoform	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B

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Well RWM 3 collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<250	JU	L	O	250	µg/L	GE	EPA8260B
0	Chloroform	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Dichloromethane	<250	JU	L	O	250	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	646	J	L	O	50.0	µg/L	GE	EPA8260B
0	Toluene	12.6	J	IL	O	50.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
2	Trichloroethylene	2,410	J	L	O	50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B

**WELL RWM 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.8  
 Sp. conductance: 49 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 13:34  
 Water temperature: 25.8°C  
 Air temperature: 34°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
1	Carbon tetrachloride	4.19	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroform	0.679	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	1.72	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1,100	J	L	O	50.0	µg/L	GE	EPA8260B
0	Toluene	<0.545	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	0.702	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	3,420	J	L	O	50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 165.01 ft (50.3 m) below TOC  
 Water elevation: 201.49 ft (61.41 m) msl  
 pH: 5  
 Sp. conductance: 24 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 8:39  
 Water temperature: 19.1°C  
 Air temperature: 18.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromodichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromoform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromomethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chlorobenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	Chloroform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dibromochloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dichloromethane	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Ethylbenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1,310	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Trichloroethylene	7,040	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B

**WELL RWM 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 164.86 ft (50.25 m) below TOC  
 Water elevation: 201.64 ft (61.46 m) msl  
 pH: 5.1  
 Sp. conductance: 23 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 12:57  
 Water temperature: 22.1°C  
 Air temperature: 32.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromodichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromoform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromomethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chlorobenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	Chloroform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dibromochloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dichloromethane	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Ethylbenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B



Well RWM 4 collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Tetrachloroethylene	885	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	25.0	J	IL	O	100	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Trichloroethylene	5,000	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B

**WELL RWM 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 165.46 ft (50.43 m) below TOC  
 Water elevation: 201.04 ft (61.28 m) msl  
 pH: 4.9  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 13:04  
 Water temperature: 23.6°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.193	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.407	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	0.933	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	1.64	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1,330	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	<0.274	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	0.319	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	6,510	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Depth to water: 161.95 ft (49.36 m) below TOC  
 Water elevation: 204.95 ft (62.47 m) msl  
 pH: 5.8  
 Sp. conductance: 89 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 10:25  
 Water temperature: 20.9°C  
 Air temperature: 24.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromoform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromomethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B

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Well RWM 5 collected on 04/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<125	JU	L	O	125	µg/L	GE	EPA8260B
0	Chloroform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Dichloromethane	<125	JU	L	O	125	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	601	J	L	O	25.0	µg/L	GE	EPA8260B
0	Toluene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2	Trichloroethylene	1,760	J	L	O	25.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B

**WELL RWM 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 161.74 ft (49.3 m) below TOC  
 Water elevation: 205.16 ft (62.53 m) msl  
 pH: 5.1  
 Sp. conductance: 28 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 12:35  
 Water temperature: 22.4°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromoform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromomethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Dichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	358	J	L	O	20.0	µg/L	GE	EPA8260B
0	Toluene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
2	Trichloroethylene	1,270	J	L	O	20.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B

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Second Quarter 2001



**WELL RWM 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 162.29 ft (49.47 m) below TOC  
 Water elevation: 204.61 ft (62.37 m) msl  
 pH: 5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 13:54  
 Water temperature: 22.9°C  
 Air temperature: 34.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Carbon tetrachloride	0.642	J	IL	O	1.00	µg/L	GE	EPA8260B
0 Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0 Chloroform	0.255	J	IL	O	1.00	µg/L	GE	EPA8260B
0 Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 1,1-Dichloroethylene	0.628	J	IL	O	1.00	µg/L	GE	EPA8260B
0 trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0 1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2 Tetrachloroethylene	452	J	L	O	25.0	µg/L	GE	EPA8260B
0 Toluene	<0.267	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0 1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 1,1,2-Trichloroethane	0.144	J	IL	O	1.00	µg/L	GE	EPA8260B
2 Trichloroethylene	1.490	J	L	O	25.0	µg/L	GE	EPA8260B
0 Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 177.73 ft (54.17 m) below TOC  
 Water elevation: 171.37 ft (52.23 m) msl  
 pH: 5.1  
 Sp. conductance: 34 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 13:45  
 Water temperature: 22.6°C  
 Air temperature: 33.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Benzene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Bromodichloromethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Bromoform	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Bromomethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Carbon tetrachloride	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Chlorobenzene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Chloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Chloroethene (Vinyl chloride)	<25.0	U			25.0	µg/L	GE	EPA8260B
0 2-Chloroethyl vinyl ether	<125	U			125	µg/L	GE	EPA8260B
0 Chloroform	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Chloromethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Dibromochloromethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,1-Dichloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,2-Dichloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,1-Dichloroethylene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 trans-1,2-Dichloroethylene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 Dichloromethane	<125	U			125	µg/L	GE	EPA8260B
0 1,2-Dichloropropane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 cis-1,3-Dichloropropene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 trans-1,3-Dichloropropene	<25.0	U			25.0	µg/L	GE	EPA8260B

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Well RWM 6 collected on 04/09/01 (cont.)

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Ethylbenzene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,1,2,2-Tetrachloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
2 Tetrachloroethylene	1.580				25.0	µg/L	GE	EPA8260B
0 Toluene	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,1,1-Trichloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0 1,1,2-Trichloroethane	<25.0	U			25.0	µg/L	GE	EPA8260B
2 Trichloroethylene	1.830				25.0	µg/L	GE	EPA8260B
0 Trichlorofluoromethane	<25.0	U			25.0	µg/L	GE	EPA8260B

**WELL RWM 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5.2  
 Sp. conductance: 27 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 15:14  
 Water temperature: 23.8°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Benzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Bromodichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Bromoform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Bromomethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Carbon tetrachloride	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Chlorobenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Chloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Chloroethene (Vinyl chloride)	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 2-Chloroethyl vinyl ether	<125	JU	L	O	125	µg/L	GE	EPA8260B
0 Chloroform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Chloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Dibromochloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,1-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,2-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,1-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 trans-1,2-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Dichloromethane	<125	JU	L	O	125	µg/L	GE	EPA8260B
0 1,2-Dichloropropane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 cis-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 trans-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 Ethylbenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,1,2,2-Tetrachloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2 Tetrachloroethylene	1.000	J	L	O	25.0	µg/L	GE	EPA8260B
0 Toluene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,1,1-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0 1,1,2-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2 Trichloroethylene	1.330	J	L	O	25.0	µg/L	GE	EPA8260B
0 Trichlorofluoromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B

**WELL RWM 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 191.31 ft (58.31 m) below TOC  
 Water elevation: 157.79 ft (48.09 m) msl  
 pH: 5.1  
 Sp. conductance: 30 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 14:06  
 Water temperature: 22.8°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0 Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Carbon tetrachloride	0.552	J	IL	O	1.00	µg/L	GE	EPA8260B
0 Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0 Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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Well RWM 6 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1,510	J	L	O	25.0	µg/L	GE	EPA8260B
0	Toluene	<0.357	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	1,630	J	L	O	25.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 7**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 155.95 ft (47.53 m) below TOC  
 Water elevation: 193.05 ft (58.84 m) msl  
 pH: 5  
 Sp. conductance: 65 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 14:07  
 Water temperature: 22.4°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<100	U			100	µg/L	GE	EPA8260B
0	Bromodichloromethane	<100	U			100	µg/L	GE	EPA8260B
0	Bromoform	<100	U			100	µg/L	GE	EPA8260B
0	Bromomethane	<100	U			100	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<100	U			100	µg/L	GE	EPA8260B
0	Chlorobenzene	<100	U			100	µg/L	GE	EPA8260B
0	Chloroethane	<100	U			100	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<100	U			100	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<500	U			500	µg/L	GE	EPA8260B
0	Chloroform	<100	U			100	µg/L	GE	EPA8260B
0	Chloromethane	<100	U			100	µg/L	GE	EPA8260B
0	Dibromochloromethane	<100	U			100	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<100	U			100	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<100	U			100	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<100	U			100	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<100	U			100	µg/L	GE	EPA8260B
0	Dichloromethane	<500	U			500	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<100	U			100	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<100	U			100	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<100	U			100	µg/L	GE	EPA8260B
0	Ethylbenzene	<100	U			100	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<100	U			100	µg/L	GE	EPA8260B
2	Tetrachloroethylene	7,930	U			100	µg/L	GE	EPA8260B
0	Toluene	<100	U			100	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<100	U			100	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<100	U			100	µg/L	GE	EPA8260B
2	Trichloroethylene	6,690	U			100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<100	U			100	µg/L	GE	EPA8260B

**WELL RWM 7**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 155.79 ft (47.49 m) below TOC  
 Water elevation: 193.21 ft (58.89 m) msl  
 pH: 4.9  
 Sp. conductance: 64 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 14:47  
 Water temperature: 24.2°C  
 Air temperature: 38.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<500	JU	L	O	500	µg/L	ML	EPA8260B
0	Benzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Benzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromodichloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromoform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromoform	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Bromomethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Carbon disulfide	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chlorobenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	2-Chloroethyl vinyl ether	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	Chloroform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroform	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Chloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Dibromochloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Dichloromethane	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	Dichloromethane	<500	JU	L	O	500	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	Ethylbenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	2-Hexanone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Styrene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
2	Tetrachloroethylene	5,230	J	L	O	200	µg/L	GE	EPA8260B
2	Tetrachloroethylene	11,700	J	L	O	50.0	µg/L	ML	EPA8260B
0	Toluene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Toluene	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B
2	Trichloroethylene	5,200	J	L	O	200	µg/L	GE	EPA8260B
2	Trichloroethylene	8,340	J	L	O	50.0	µg/L	ML	EPA8260B
0	Trichlorofluoromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Vinyl acetate	<250	JU	L	O	250	µg/L	ML	EPA8260B
0	Xylenes	<50.0	JU	L	O	50.0	µg/L	ML	EPA8260B



## WELL RWM 7 Replicate

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 155.79 ft (47.49 m) below TOC  
 Water elevation: 193.21 ft (58.89 m) msl  
 pH: 4.9  
 Sp. conductance: 64 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 14:47  
 Water temperature: 24.2°C  
 Air temperature: 38.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.13	J	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.617	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloroform	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	2.25	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<1,000	JU	L	O	1,000	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
2	Tetrachloroethylene	1.260	J	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	5.450	J	L	O	200	µg/L	GE	EPA8260B
0	Toluene	<0.261	JU	L	O	8	µg/L	GE	EPA8260B
0	Toluene	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	0.527	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	0.464	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	1.080	J	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	5.270	J	L	O	200	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<200	JU	L	O	200	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL RWM 7

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 156.1 ft (47.58 m) below TOC  
 Water elevation: 192.9 ft (58.8 m) msl  
 pH: 4.6  
 Sp. conductance: 67 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 11:59  
 Water temperature: 20.8°C  
 Air temperature: 31.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.39	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.676	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	3.33	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	7.700	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	<0.376	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	0.515	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	0.353	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	6.140	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL RWM 8

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 149.01 ft (45.42 m) below TOC  
 Water elevation: 199.29 ft (60.74 m) msl  
 pH: 5.2  
 Sp. conductance: 111 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 14:59  
 Water temperature: 22°C  
 Air temperature: 34.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B



Well RWM 8 collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	410				10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	807				10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

**WELL RWM 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 149.88 ft (45.68 m) below TOC  
 Water elevation: 198.42 ft (60.48 m) msl  
 pH: 5.1  
 Sp. conductance: 86 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 13:58  
 Water temperature: 22.7°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromoform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromomethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Dichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	289	J	L	O	20.0	µg/L	GE	EPA8260B
0	Toluene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
2	Trichloroethylene	596	J	L	O	20.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B

**WELL RWM 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 148.15 ft (45.16 m) below TOC  
 Water elevation: 200.15 ft (61.01 m) msl  
 pH: 5  
 Sp. conductance: 87 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 12:20  
 Water temperature: 21.7°C  
 Air temperature: 32.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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Well RWM 8 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.183	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	1.40	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	394	J	L	O	10.0	µg/L	GE	EPA8260B
0	Toluene	<0.779	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	688	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 169.89 ft (51.78 m) below TOC  
 Water elevation: 210.71 ft (64.23 m) msl  
 pH: 5.7  
 Sp. conductance: 62 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 11:11  
 Water temperature: 21.2°C  
 Air temperature: 26.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	48.0				10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	587				10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

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**WELL RWM 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5.3  
 Sp. conductance: 43 µS/cm  
 Turbidity: 0 NTU

The well was continuously pumping.

Time: 9:00  
 Water temperature: 19.6°C  
 Air temperature: 21.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	JU	L	IO	10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	45.8	J	L	O	10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	JU	L	IO	10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	513	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B

**WELL RWM 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 171.81 ft (52.37 m) below TOC  
 Water elevation: 208.79 ft (63.64 m) msl  
 pH: 5  
 Sp. conductance: 44 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 11:43  
 Water temperature: 21.7°C  
 Air temperature: 29°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.05	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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Well RWM 9 collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	61.2	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.446	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	541	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 10**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 160.87 ft (49.03 m) below TOC  
 Water elevation: 194.63 ft (59.32 m) msl  
 pH: 5.1  
 Sp. conductance: 109 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 14:35  
 Water temperature: 22.3°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<200	U			200	µg/L	GE	EPA8260B
0	Bromodichloromethane	<200	U			200	µg/L	GE	EPA8260B
0	Bromoform	<200	U			200	µg/L	GE	EPA8260B
0	Bromomethane	<200	U			200	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<200	U			200	µg/L	GE	EPA8260B
0	Chlorobenzene	<200	U			200	µg/L	GE	EPA8260B
0	Chloroethane	<200	U			200	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<200	U			200	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<1,000	U			1,000	µg/L	GE	EPA8260B
0	Chloroform	<200	U			200	µg/L	GE	EPA8260B
0	Chloromethane	<200	U			200	µg/L	GE	EPA8260B
0	Dibromochloromethane	<200	U			200	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<200	U			200	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<200	U			200	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<200	U			200	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<200	U			200	µg/L	GE	EPA8260B
0	Dichloromethane	<1,000	U			1,000	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<200	U			200	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<200	U			200	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<200	U			200	µg/L	GE	EPA8260B
0	Ethylbenzene	<200	U			200	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<200	U			200	µg/L	GE	EPA8260B
2	Tetrachloroethylene	10,800	U			200	µg/L	GE	EPA8260B
0	Toluene	<200	U			200	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<200	U			200	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<200	U			200	µg/L	GE	EPA8260B
2	Trichloroethylene	5,380	U			200	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<200	U			200	µg/L	GE	EPA8260B

**WELL RWM 10**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 157.66 ft (48.06 m) below TOC  
 Water elevation: 197.84 ft (60.3 m) msl  
 pH: 5.1  
 Sp. conductance: 104 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 14:21  
 Water temperature: 23.6°C  
 Air temperature: 38.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromodichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromoform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Bromomethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chlorobenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<100	JU	L	O	100	µg/L	GE	EPA8260B

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Well RWM 10 collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	Chloroform	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dibromochloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dichloromethane	<500	JU	L	O	500	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Ethylbenzene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Tetrachloroethylene	8,020	J	L	O	100	µg/L	GE	EPA8260B
0	Toluene	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
2	Trichloroethylene	4,340	J	L	O	100	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B

**WELL RWM 10**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 158.03 ft (48.17 m) below TOC  
 Water elevation: 197.47 ft (60.19 m) msl  
 pH: 4.6  
 Sp. conductance: 102 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 12:09  
 Water temperature: 21.6°C  
 Air temperature: 31.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	0.276	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	1.24	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.330	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	1.26	J	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	0.659	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	3.36	J	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	0.774	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	10,600	J	L	O	200	µg/L	GE	EPA8260B
0	Toluene	<0.722	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	0.354	J	IL	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	1.07	J	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	4,980	J	L	O	200	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 11**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 176.63 ft (53.84 m) below TOC  
 Water elevation: 206.67 ft (62.99 m) msl  
 pH: 4.6  
 Sp. conductance: 34 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 10:47  
 Water temperature: 21.9°C  
 Air temperature: 28.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	36.6				10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	648				10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

**WELL RWM 11**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: 176.2 ft (53.71 m) below TOC  
 Water elevation: 207.1 ft (63.12 m) msl  
 pH: 4.9  
 Sp. conductance: 29 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 9:27  
 Water temperature: 20.3°C  
 Air temperature: 22.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	JU	L	IO	10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B



Well RWM 11 collected on 05/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	26.8	J	L	O	10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	JU	L	IO	10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	515	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B

**WELL RWM 11**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01

Depth to water: 176.88 ft (53.91 m) below TOC

Water elevation: 206.42 ft (62.92 m) msl

pH: 4.7

Sp. conductance: 30 µS/cm

Turbidity: 0 NTU

Water evacuated from the well prior to sampling: 1 gal

The well was continuously pumping.

Time: 11:33

Water temperature: 22.7°C

Air temperature: 28.9°C

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L

Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.633	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	1.57	J	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	34.2	J	L	O	10.0	µg/L	GE	EPA8260B
0	Toluene	<0.648	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	563	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 12**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01

Depth to water: 151.29 ft (46.11 m) below TOC

Water elevation: 208.11 ft (63.43 m) msl

pH: 4.9

Sp. conductance: 42 µS/cm

Turbidity: 0 NTU

The well was continuously pumping.

Time: 10:09

Water temperature: 21.6°C

Air temperature: 31.5°C

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L

Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Bromoform	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Bromomethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Chloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<20.0	U			20.0	µg/L	GE	EPA8260B

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Well RWM 12 collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<100	U			100	µg/L	GE	EPA8260B
0	Chloroform	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Chloromethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Dichloromethane	<100	U			100	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	Toluene	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<20.0	U			20.0	µg/L	GE	EPA8260B
2	Trichloroethylene	1,730				20.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<20.0	U			20.0	µg/L	GE	EPA8260B

**WELL RWM 12**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01

Depth to water: 151.05 ft (46.04 m) below TOC

Water elevation: 208.35 ft (63.51 m) msl

pH: 4.9

Sp. conductance: 41 µS/cm

Turbidity: 0 NTU

The well was continuously pumping.

Time: 9:32

Water temperature: 20.7°C

Air temperature: 32.5°C

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L

Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromoform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Bromomethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<125	JU	L	O	125	µg/L	GE	EPA8260B
0	Chloroform	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Dichloromethane	<125	JU	L	O	125	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	7.48	J	IL	O	25.0	µg/L	GE	EPA8260B
0	Toluene	8.21	J	IL	O	25.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
2	Trichloroethylene	1,360	J	L	O	25.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B



**WELL RWM 12**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 151.48 ft (46.17 m) below TOC  
 Water elevation: 207.92 ft (63.37 m) msl  
 pH: 4.9  
 Sp. conductance: 42 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 10:03  
 Water temperature: 21.1°C  
 Air temperature: 27°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.265	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.369	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	13.0	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.338	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	1.540	J	L	O	25.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 13B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 132.67 ft (40.44 m) below TOC  
 Water elevation: 203.53 ft (62.04 m) msl  
 pH: 4.9  
 Sp. conductance: 38 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 12:58  
 Water temperature: 20.8°C  
 Air temperature: 20.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	U			5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	U			25.0	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well RWM 13B collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
1	Tetrachloroethylene	4.01	J	I		5.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	342				5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	GE	EPA8260B

**WELL RWM 13B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 138.57 ft (42.24 m) below TOC  
 Water elevation: 197.63 ft (60.24 m) msl  
 pH: 5.2  
 Sp. conductance: 19 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 10:03  
 Water temperature: 21.5°C  
 Air temperature: 31.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromoform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromomethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
1	Tetrachloroethylene	3.85	J	L	O	2.00	µg/L	GE	EPA8260B
1	Tetrachloroethylene	3.63	J	IL	O	5.00	µg/L	GE	EPA8260B
0	Toluene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Toluene	<1.40	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	271	J	L	O	2.00	µg/L	GE	EPA8260B

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Second Quarter 2001



Well RWM 13B collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Trichloroethylene	279	J	L	O	5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

**WELL RWM 13B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 138.7 ft (42.28 m) below TOC  
 Water elevation: 197.5 ft (60.2 m) msl  
 pH: 5  
 Sp. conductance: 21 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 15:45  
 Water temperature: 20.8°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.179	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	8.50	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.453	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	346	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 13C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 132.67 ft (40.44 m) below TOC  
 Water elevation: 203.73 ft (62.1 m) msl  
 pH: 4.9  
 Sp. conductance: 38 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 12:58  
 Water temperature: 20.8°C  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well RWM 13C collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	8.37	J	I		10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	527				10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

**WELL RWM 13C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 132.51 ft (40.39 m) below TOC  
 Water elevation: 203.89 ft (62.15 m) msl  
 pH: 5.2  
 Sp. conductance: 29 µS/cm  
 Turbidity: 3 NTU  
 The well was continuously pumping.

Time: 10:19  
 Water temperature: 22.3°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Benzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromoform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromomethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	6.95	J	L	O	5.00	µg/L	GE	EPA8260B

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Well RWM 13C collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
2	Tetrachloroethylene	7.34	J	L	O	2.00	µg/L	GE	EPA8260B
0	Toluene	<1.31	JU	L	O8	5.00	µg/L	GE	EPA8260B
0	Toluene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
2	Trichloroethylene	361	J	L	O	5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	374	J	L	O	2.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B

**WELL RWM 13C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 132.82 ft (40.48 m) below TOC  
 Water elevation: 203.58 ft (62.05 m) msl  
 pH: 5  
 Sp. conductance: 30 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 15:00  
 Water temperature: 21.4°C  
 Air temperature: 35.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.297	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	1.48	J	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	12.0	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.339	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	452	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 144.99 ft (44.19 m) below TOC  
 Water elevation: 206.21 ft (62.85 m) msl  
 pH: 4.9  
 Sp. conductance: 23 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 9:00  
 Water temperature: 19.4°C  
 Air temperature: 22.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	GE	EPA8260B

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Well RWM 14B collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
1	Tetrachloroethylene	4.95	J	I		10.0	µg/L	GE	EPA8260B
0	Toluene	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	U			10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	523	U			10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	U			10.0	µg/L	GE	EPA8260B

**WELL RWM 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 144.58 ft (44.07 m) below TOC  
 Water elevation: 206.62 ft (62.98 m) msl  
 pH: 5.1  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 8:20  
 Water temperature: 17.8°C  
 Air temperature: 17.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromoform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromomethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroform	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B

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Well RWM 14B collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	5.76	J	L	O	2.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	5.35	J	L	O	5.00	µg/L	GE	EPA8260B
0	Toluene	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	391	J	L	O	2.00	µg/L	GE	EPA8260B
2	Trichloroethylene	367	J	L	O	5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<2.00	JU	L	O	2.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

**WELL RWM 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 144.94 ft (44.18 m) below TOC  
 Water elevation: 206.26 ft (62.87 m) msl  
 pH: 5  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<5.00	U			50.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<25.0	U			25.0	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	U			5.00	µg/L	ML	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.244	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	4.55	J	I		5.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	U			50.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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Well RWM 14B collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	2-Hexanone	<25.0	U			25.0	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<25.0	U			25.0	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<25.0	U			25.0	µg/L	ML	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
2	Tetrachloroethylene	9.28	J	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	14.7				5.00	µg/L	ML	EPA8260B
0	Toluene	<0.327	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	ML	EPA8260B
2	Trichloroethylene	548	J	L	O	10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	589				5.00	µg/L	ML	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Vinyl acetate	<25.0	U			25.0	µg/L	ML	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	ML	EPA8260B

**WELL RWM 14B Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 144.94 ft (44.18 m) below TOC  
 Water elevation: 206.26 ft (62.87 m) msl  
 pH: 5  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.269	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	8.83	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.315	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	496	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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**WELL RWM 14C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 152.11 ft (46.36 m) below TOC  
 Water elevation: 199.29 ft (60.74 m) msl  
 pH: 4.5  
 Sp. conductance: 36 µS/cm  
 Turbidity: 3 NTU  
 The well was continuously pumping.

Time: 8:48  
 Water temperature: 19.3°C  
 Air temperature: 22.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromoform	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	U			50.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<250	U			250	µg/L	GE	EPA8260B
0	Chloroform	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Chloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Dichloromethane	<250	U			250	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Toluene	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	U			50.0	µg/L	GE	EPA8260B
2	Trichloroethylene	2,870				50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<50.0	U			50.0	µg/L	GE	EPA8260B

**WELL RWM 14C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 149.16 ft (45.46 m) below TOC  
 Water elevation: 202.24 ft (61.64 m) msl  
 pH: 5  
 Sp. conductance: 35 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 8:41  
 Water temperature: 18.5°C  
 Air temperature: 18.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Benzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromoform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromoform	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Bromomethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Bromomethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<250	JU	L	O	250	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Chloroform	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Chloroform	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B

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Well RWM 14C collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Dichloromethane	<100	JU	L	O	100	µg/L	GE	EPA8260B
0	Dichloromethane	<250	JU	L	O	250	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	13.0	J	IL	O	20.0	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Toluene	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Toluene	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	9.28	J	IL	O	50.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	11.9	J	IL	O	20.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
2	Trichloroethylene	2,290	J	L	O	20.0	µg/L	GE	EPA8260B
2	Trichloroethylene	2,000	J	L	O	50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<20.0	JU	L	O	20.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B

**WELL RWM 14C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 149.34 ft (45.52 m) below TOC  
 Water elevation: 202.06 ft (61.59 m) msl  
 pH: 5  
 Sp. conductance: 36 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 11:04  
 Water temperature: 21.6°C  
 Air temperature: 28.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.170	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.639	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	1.04	J	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	18.1	J	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.567	JU	LV	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	2.62	J	L	O	1.00	µg/L	GE	EPA8260B

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Well RWM 14C collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	0.373	J	IL	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	3,030	J	L	O	50.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 163.81 ft (49.93 m) below TOC  
 Water elevation: 204.59 ft (62.36 m) msl  
 pH: 5.3  
 Sp. conductance: 32 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 12:32  
 Water temperature: 20.6°C  
 Air temperature: 32.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	16.4				1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B

**WELL RWM 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Depth to water: 162.9 ft (49.65 m) below TOC  
 Water elevation: 205.5 ft (62.64 m) msl  
 pH: 5.3  
 Sp. conductance: 20 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 10:42  
 Water temperature: 21.1°C  
 Air temperature: 33.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well RWM 15B collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	11.1	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 15B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 163.38 ft (49.8 m) below TOC  
 Water elevation: 205.02 ft (62.49 m) msl  
 pH: 5.1  
 Sp. conductance: 22 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 14:45  
 Water temperature: 21.5°C  
 Air temperature: 34.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.433	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
2	Trichloroethylene	13.3	J	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

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Second Quarter 2001



**WELL RWM 17B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 173.57 ft (52.9 m) below TOC  
 Water elevation: 207.73 ft (63.32 m) msl  
 pH: 5.1  
 Sp. conductance: 21 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 11:59  
 Water temperature: 20.2°C  
 Air temperature: 28.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.79	J	I		5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	U			5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	U			25.0	µg/L	GE	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	U			25.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	84.6				5.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	448				5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	GE	EPA8260B

**WELL RWM 17B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 5  
 Sp. conductance: 20 µS/cm  
 Turbidity: 2 NTU  
 The well was continuously pumping.

Time: 8:33  
 Water temperature: 19°C  
 Air temperature: 21.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Bromomethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.00	J	IL	O	5.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<5.00	JU	L	IO	5.00	µg/L	GE	EPA8260B
0	Chloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	Chloroform	<1.06	JU	IL	O8	5.00	µg/L	GE	EPA8260B
0	Chloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Dichloromethane	<25.0	JU	L	O	25.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well RWM 17B collected on 05/10/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
2	Tetrachloroethylene	58.2	J	L	O	5.00	µg/L	GE	EPA8260B
0	Toluene	<5.00	JU	L	IO	5.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
2	Trichloroethylene	322	J	L	O	5.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

**WELL RWM 17B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 173.5 ft (52.88 m) below TOC  
 Water elevation: 207.8 ft (63.34 m) msl  
 pH: 5.1  
 Sp. conductance: 21 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 14:20  
 Water temperature: 21.6°C  
 Air temperature: 34.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromodichloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromoform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Carbon tetrachloride	1.99	J	IL	O	10.0	µg/L	GE	EPA8260B
0	Chlorobenzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	Chloroform	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dibromochloromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Dichloromethane	<50.0	JU	L	O	50.0	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	Ethylbenzene	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Tetrachloroethylene	95.5	J	L	O	10.0	µg/L	GE	EPA8260B
0	Toluene	2.62	J	IL	IO	10.0	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B
2	Trichloroethylene	420	J	L	O	10.0	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<10.0	JU	L	O	10.0	µg/L	GE	EPA8260B

**WELL RWM 17D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/09/01  
 Depth to water: 159.25 ft (48.54 m) below TOC  
 Water elevation: 221.65 ft (67.56 m) msl  
 pH: 4.8  
 Sp. conductance: 27 µS/cm  
 Turbidity: 1 NTU  
 The well was continuously pumping.

Time: 11:47  
 Water temperature: 21.3°C  
 Air temperature: 28.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B

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Well RWM 17D collected on 04/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B

**WELL RWM 17D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Depth to water: 160.91 ft (49.05 m) below TOC  
 Water elevation: 219.99 ft (67.05 m) msl  
 pH: 5.2  
 Sp. conductance: 23 µS/cm  
 Turbidity: 0 NTU  
 The well was continuously pumping.

Time: 8:15  
 Water temperature: 19.3°C  
 Air temperature: 21°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.287	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL RWM 17D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Depth to water: 160.2 ft (48.83 m) below TOC  
 Water elevation: 220.7 ft (67.27 m) msl  
 pH: 5.1  
 Sp. conductance: 24 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 14:27  
 Water temperature: 22.7°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	0.267	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<0.627	JU	LV	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.440	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

**WELL SRW 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: 4.8  
 Sp. conductance: 54 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 15:24  
 Water temperature: 23.2°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	5.24	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B



Well SRW 2 collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	1.20	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 7**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 93.58 ft (28.52 m) below TOC  
 Water elevation: 205.52 ft (62.64 m) msl  
 pH: 5.1  
 Sp. conductance: 23 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 12 gal

Time: 14:10  
 Water temperature: 21.5°C  
 Air temperature: 34.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
1	Carbon tetrachloride	2.69	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	6.71	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	0.670	J	IL	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	0.850	J	IL	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	0.740	J	IL	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	2.05	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 8**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 89.16 ft (27.18 m) below TOC  
 Water elevation: 198.94 ft (60.64 m) msl  
 pH: 5.2  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 14:47  
 Water temperature: 21.3°C  
 Air temperature: 37.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	1.30	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	2.67	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	1.39	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 9**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Depth to water: 60.19 ft (18.35 m) below TOC  
 Water elevation: 193.21 ft (58.89 m) msl  
 pH: 5.1  
 Sp. conductance: 21 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 47 gal

Time: 16:10  
 Water temperature: 21.1°C  
 Air temperature: 37.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	1.15	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	2.90	J	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B



Well SRW 9 collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	0.980	J	IL	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	2.42	J	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 12C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
Depth to water: 49.87 ft (15.2 m) below TOC  
Water elevation: 186.43 ft (56.82 m) msl  
pH: 5.4  
Sp. conductance: 14 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 28 gal

Time: 15:25  
Water temperature: 21.8°C  
Air temperature: 36.3°C  
Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

ESH-EMS-20010585

**WELL SRW 16C**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
Depth to water: 142.3 ft (43.37 m) below TOC  
Water elevation: 204.3 ft (62.27 m) msl  
pH: 5.3  
Sp. conductance: 16 µS/cm  
Turbidity: 1 NTU  
Water evacuated from the well prior to sampling: 26 gal

Time: 9:05  
Water temperature: 19°C  
Air temperature: 17.7°C  
Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L  
Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 17DR**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
Depth to water: Not available  
Water elevation: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .  
Water temperature: Not available  
Air temperature: Not available  
Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Benzene	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<10.0	U	X	10.0	µg/L	WA	EPA8260B	
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<5.00	U	X	5.00	µg/L	WA	EPA8260B	
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<5.00	U	X	5.00	µg/L	WA	EPA8260B	

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Well SRW 17DR collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL SRW 17DR Replicate****MEASUREMENTS CONDUCTED IN THE FIELD**

Sample date: 05/14/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

**LABORATORY ANALYSES**

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

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Well SRW 17DR collected on 05/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL SRW 18****MEASUREMENTS CONDUCTED IN THE FIELD**

Sample date: 05/15/01  
 Depth to water: 132.02 ft (40.24 m) below TOC  
 Water elevation: Not available  
 pH: 5.9  
 Sp. conductance: 21 µS/cm  
 Turbidity: 19 NTU  
 Water evacuated from the well prior to sampling: 37 gal

Time: 12:45  
 Water temperature: 25.1°C  
 Air temperature: 36.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

**LABORATORY ANALYSES**

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

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**WELL SSM 10B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 85.78 ft (26.15 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 42 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:00  
 Water temperature: 22.7°C  
 Air temperature: 32.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	12.2	J	K	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	453	J	K	O	25.0	µg/L	WA	EPA8260B
2	Trichloroethylene	408	J	K	O	5.00	µg/L	WA	EPA8260B

**WELL SSM 10C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 85.46 ft (26.05 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 46 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:30  
 Water temperature: 22.7°C  
 Air temperature: 32.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	21.2	J	K	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	561	J	K	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	654	J	K	O	25.0	µg/L	WA	EPA8260B

**WELL SSM 11B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 108.4 ft (33.04 m) below TOC  
 Water elevation: Not available  
 pH: 5.3  
 Sp. conductance: 29 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:06  
 Water temperature: 25.9°C  
 Air temperature: 34.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	cis-1,2-Dichloroethylene	110			X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	131			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	3,760		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	10,800				1,000	µg/L	WA	EPA8260B

**WELL SSM 11C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 108.25 ft (33 m) below TOC  
 Water elevation: Not available  
 pH: 6.4  
 Sp. conductance: 68 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 15:15  
 Water temperature: 25.7°C  
 Air temperature: 33.3°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 8 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	4.00	J	I	X	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	3.79	J	I	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	324		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	323				10.0	µg/L	WA	EPA8260B

**WELL SSM 12B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 94.05 ft (28.67 m) below TOC  
 Water elevation: Not available  
 pH: 5.8  
 Sp. conductance: 19 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:49  
 Water temperature: 26.9°C  
 Air temperature: 32.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 1 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.88	J	I	X	5.00	µg/L	WA	EPA8260B

**WELL SSM 12C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Depth to water: 94.68 ft (28.86 m) below TOC  
 Water elevation: Not available  
 pH: 10.5  
 Sp. conductance: 243 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:22  
 Water temperature: 27.7°C  
 Air temperature: 33.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 47 mg/L  
 Phenolphthalein alkalinity: 55 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.11	J	I	X	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.31	J	I	X	5.00	µg/L	WA	EPA8260B



**WELL SSM 13B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 117.74 ft (35.89 m) below TOC  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 126 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 8:45  
 Water temperature: 21°C  
 Air temperature: 24.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
2	cis-1,2-Dichloroethylene	83.9			X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	621		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	912				25.0	µg/L	WA	EPA8260B

**WELL SSM 13C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 117.75 ft (35.89 m) below TOC  
 Water elevation: Not available  
 pH: 4.1  
 Sp. conductance: 55 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 9:25  
 Water temperature: 25.1°C  
 Air temperature: 26.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.47	J	I	X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	149			X	5.00	µg/L	WA	EPA8260B

**WELL SSM 14B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 125.86 ft (38.36 m) below TOC  
 Water elevation: Not available  
 pH: 4.4  
 Sp. conductance: 28 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 11:50  
 Water temperature: 23.7°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	218		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	229				10.0	µg/L	WA	EPA8260B

**WELL SSM 14C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 125.92 ft (38.38 m) below TOC  
 Water elevation: Not available  
 pH: 10.2  
 Sp. conductance: 142 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:30  
 Water temperature: 23.9°C  
 Air temperature: 32.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 23 mg/L  
 Phenolphthalein alkalinity: 44 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	115			X	5.00	µg/L	WA	EPA8260B

**WELL SSM 15B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 108.69 ft (33.13 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 31 µS/cm  
 Turbidity: 4 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:10  
 Water temperature: 27.3°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0				10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL SSM 15B2 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 108.69 ft (33.13 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 31 µS/cm  
 Turbidity: 4 NTU  
 No water was evacuated from the well prior to sampling.

Time: 12:10  
 Water temperature: 27.3°C  
 Air temperature: 32.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B



**WELL SSM 15C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: 108.68 ft (33.13 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 51 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:00  
 Water temperature: 24°C  
 Air temperature: 33.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	240		L		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	230				10.0	µg/L	WA	EPA8260B

**WELL SSM 16B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 96.83 ft (29.51 m) below TOC  
 Water elevation: Not available  
 pH: 3.9  
 Sp. conductance: 42 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:05  
 Water temperature: 24.5°C  
 Air temperature: 36.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	17.9			X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	29.3			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	2,240				100	µg/L	WA	EPA8260B
2	Trichloroethylene	1,020		L	X	5.00	µg/L	WA	EPA8260B

**WELL SSM 16C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Depth to water: 97.65 ft (29.76 m) below TOC  
 Water elevation: Not available  
 pH: 4.2  
 Sp. conductance: 41 µS/cm  
 Turbidity: 0 NTU  
 No water was evacuated from the well prior to sampling.

Time: 14:40  
 Water temperature: 24.9°C  
 Air temperature: 37.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.43	J	I	X	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	6.98			X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	642		L	X	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	943				25.0	µg/L	WA	EPA8260B

**WELL SSM 17B2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 72.52 ft (22.1 m) below TOC  
 Water elevation: Not available  
 pH: 4.3  
 Sp. conductance: 18 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:15  
 Water temperature: 23°C  
 Air temperature: 29.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 1 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	2.40	J	I		5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	3.20	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	46.4				5.00	µg/L	WA	EPA8260B

**WELL SSM 17C2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: 72.44 ft (22.08 m) below TOC  
 Water elevation: Not available  
 pH: 4  
 Sp. conductance: 54 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 10:45  
 Water temperature: 26.6°C  
 Air temperature: 35.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	10.1				5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	15.1				5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	194				5.00	µg/L	WA	EPA8260B

**WELL TBG 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 52.63 ft (16.04 m) below TOC  
 Water elevation: 98.57 ft (30.04 m) msl  
 pH: 5.3  
 Sp. conductance: 98 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 31 gal

Time: 16:03  
 Water temperature: 22.7°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	0.450	J	IL	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<1.28	JU	LV	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B



Well TBG 1 collected on 06/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<0.320	JU	LV	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	1.62	J	L	O	1.00	µg/L	GE	EPA8260B
1	Trichloroethylene	2.67	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Gross alpha	6.01E-09±1.54E-09				1.25E-09	µCi/mL	GP	EPA900.0
1	Gross alpha	9.46E-09±8.55E-10				1.18E-09	µCi/mL	ML	RADA-001

**WELL TBG 1 Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 52.63 ft (16.04 m) below TOC  
 Water elevation: 98.57 ft (30.04 m) msl  
 pH: 5.3  
 Sp. conductance: 98 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 31 gal

Time: 16:03  
 Water temperature: 22.7°C  
 Air temperature: 28.6°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.86	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	6.38E-09±6.60E-10				9.90E-10	µCi/mL	ML	EPA900.0
1	Gross alpha	7.85E-09±7.02E-10				9.38E-10	µCi/mL	ML	EPA900.0

**WELL TBG 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 52.04 ft (15.86 m) below TOC  
 Water elevation: 99.16 ft (30.22 m) msl  
 pH: 4.7  
 Sp. conductance: 129 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 16 gal

Time: 15:07  
 Water temperature: 26.4°C  
 Air temperature: 33°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	3.54	J	I		5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	2.67	J	I		5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	22.5				5.00	µg/L	WA	EPA8260B
1	Gross alpha	1.34E-08±1.04E-09				1.26E-09	µCi/mL	ML	RADA-001

**WELL TBG 4**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 46.82 ft (14.27 m) below TOC  
 Water elevation: 104.48 ft (31.85 m) msl  
 pH: 4.4  
 Sp. conductance: 306 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 13 gal

Time: 13:58  
 Water temperature: 25°C  
 Air temperature: 37.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	15.5	J	K	O	5.00	µg/L	WA	EPA8260B
2	Tetrachloroethylene	14.6	J	K	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	143	J	K	O	5.00	µg/L	WA	EPA8260B
2	Gross alpha	3.33E-08±1.80E-09				1.58E-09	µCi/mL	ML	RADA-001

**WELL TBG 5**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 49.46 ft (15.08 m) below TOC  
 Water elevation: 99.94 ft (30.46 m) msl  
 pH: 5.3  
 Sp. conductance: 81 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 11:03  
 Water temperature: 26.5°C  
 Air temperature: 37.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<100	U			100	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<50.0	U			50.0	µg/L	WA	EPA8260B
2	Trichloroethylene	1,120				50.0	µg/L	WA	EPA8260B
0	Gross alpha	4.60E-09±6.12E-10				1.13E-09	µCi/mL	ML	RADA-001

**WELL TBG 5A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 50.02 ft (15.25 m) below TOC  
 Water elevation: 99.98 ft (30.47 m) msl  
 pH: 5.6  
 Sp. conductance: 31 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 60 gal

Time: 12:42  
 Water temperature: 23.5°C  
 Air temperature: 34.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B



**WELL TBG 5B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 38.92 ft (11.86 m) below TOC  
 Water elevation: 110.48 ft (33.67 m) msl  
 pH: 5.3  
 Sp. conductance: 34 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 121 gal

Time: 12:05  
 Water temperature: 22.8°C  
 Air temperature: 34°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0				10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TBG 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 47.54 ft (14.49 m) below TOC  
 Water elevation: 100.56 ft (30.65 m) msl  
 pH: 5  
 Sp. conductance: 111 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 11 gal

Time: 12:31  
 Water temperature: 24.8°C  
 Air temperature: 38.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0				10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	48.3				5.00	µg/L	WA	EPA8260B
0	Gross alpha	3.40E-09±5.54E-10				1.17E-09	µCi/mL	ML	RADA-001

**WELL TCM 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 6.25 ft (1.91 m) below TOC  
 Water elevation: 91.95 ft (28.03 m) msl  
 pH: 4.9  
 Sp. conductance: 99 µS/cm  
 Turbidity: 5 NTU  
 Water evacuated from the well prior to sampling: 23 gal

Time: 13:15  
 Water temperature: 20.6°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0				10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	1.75	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	23.0				5.00	µg/L	WA	EPA8260B
0	Gross alpha	7.48E-09±9.67E-10				1.87E-09	µCi/mL	ML	EPA900.0

**WELL TIR 3B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 6 ft (1.83 m) below TOC  
 Water elevation: 94.6 ft (28.83 m) msl  
 pH: 4.9  
 Sp. conductance: 53 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 11:08  
 Water temperature: 20.1°C  
 Air temperature: 22.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	12.4	J	L	O	5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.23E-09±7.61E-10				1.75E-09	µCi/mL	ML	EPA900.0

**WELL TNX 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 58.58 ft (17.86 m) below TOC  
 Water elevation: 96.52 ft (29.42 m) msl  
 pH: 6  
 Sp. conductance: 46 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 26 gal

Time: 10:52  
 Water temperature: 22.2°C  
 Air temperature: 32°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

**WELL TNX 3D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 58.03 ft (17.69 m) below TOC  
 Water elevation: 96.27 ft (29.34 m) msl  
 pH: 6  
 Sp. conductance: 55 µS/cm  
 Turbidity: 13 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 16:30  
 Water temperature: 28°C  
 Air temperature: 39.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	3.82	J			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	85.8				5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.52E-09±4.74E-10				1.09E-09	µCi/mL	ML	RADA-001



**WELL TNX 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 50.4 ft (15.36 m) below TOC  
 Water elevation: 99.4 ft (30.3 m) msl  
 pH: 5.2  
 Sp. conductance: 59 µS/cm  
 Turbidity: 8 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well went dry during purging.

Time: 13:01  
 Water temperature: 23.1°C  
 Air temperature: 33.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): SX

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
1	Tetrachloroethylene	2.77	J	IL	O	5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	25.9	J	L	O	5.00	µg/L	WA	EPA8260B

**WELL TNX 7D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 51.94 ft (15.83 m) below TOC  
 Water elevation: 98.96 ft (30.16 m) msl  
 pH: 5.8  
 Sp. conductance: 40 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 32 gal

Time: 10:00  
 Water temperature: 20.8°C  
 Air temperature: 29.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TNX 8D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 8.14 ft (2.48 m) below TOC  
 Water elevation: 92.16 ft (28.09 m) msl  
 pH: 5.4  
 Sp. conductance: 85 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 44 gal

Time: 11:59  
 Water temperature: 19.8°C  
 Air temperature: 34.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	2.39	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	-1.08E-10±4.72E-10	U			1.83E-09	µCi/mL	ML	EPA900.0

**WELL TNX 10D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 10.14 ft (3.09 m) below TOC  
 Water elevation: 92.16 ft (28.09 m) msl  
 pH: 4.9  
 Sp. conductance: 121 µS/cm  
 Turbidity: 3 NTU  
 Water evacuated from the well prior to sampling: 42 gal

Time: 11:04  
 Water temperature: 21.2°C  
 Air temperature: 24.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	13.5				5.00	µg/L	WA	EPA8260B
0	Gross alpha	5.01E-09±8.34E-10				1.84E-09	µCi/mL	ML	EPA900.0

**WELL TNX 11D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 7.95 ft (2.42 m) below TOC  
 Water elevation: 91.85 ft (28 m) msl  
 pH: 5.1  
 Sp. conductance: 45 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 41 gal

Time: 9:39  
 Water temperature: 21.2°C  
 Air temperature: 23.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	0.220	J	IL		1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Gross alpha	3.71E-10±5.59E-10	U			1.22E-09	µCi/mL	GP	EPA900.0
0	Gross alpha	1.16E-09±5.44E-10	U			1.69E-09	µCi/mL	ML	EPA900.0



**WELL TNX 11D Replicate**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 7.95 ft (2.42 m) below TOC  
 Water elevation: 91.85 ft (28 m) msl  
 pH: 5.1  
 Sp. conductance: 45 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 41 gal

Time: 9:39  
 Water temperature: 21.2°C  
 Air temperature: 23.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	1.63E-09±5.96E-10	U			1.75E-09	µCi/mL	ML	EPA900.0

**WELL TNX 16D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 4.41 ft (1.34 m) below TOC  
 Water elevation: 88.99 ft (27.12 m) msl  
 pH: 5  
 Sp. conductance: 122 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 3 gal

Time: 12:31  
 Water temperature: 19.4°C  
 Air temperature: 26.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	15.6				5.00	µg/L	WA	EPA8260B
0	Gross alpha	-7.75E-10±4.24E-10	U			1.91E-09	µCi/mL	ML	EPA900.0

**WELL TNX 23D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 58.48 ft (17.82 m) below TOC  
 Water elevation: 96.62 ft (29.45 m) msl  
 pH: 5.9  
 Sp. conductance: 44 µS/cm  
 Turbidity: 1 NTU  
 No water was evacuated from the well prior to sampling.

Time: 13:30  
 Water temperature: 23.6°C  
 Air temperature: 34.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 5 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	1.21	J	IK	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	-4.59E-10±4.27E-10	U			1.79E-09	µCi/mL	ML	EPA900.0

**WELL TNX 26D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 8.51 ft (2.59 m) below TOC  
 Water elevation: 92.29 ft (28.13 m) msl  
 pH: 5.7  
 Sp. conductance: 146 µS/cm  
 Turbidity: 2 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 13:29  
 Water temperature: 19.8°C  
 Air temperature: 27.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 16 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.20	J	IK	O	5.00	µg/L	WA	EPA8260B
1	Gross alpha	7.98E-09±9.94E-10				1.88E-09	µCi/mL	ML	EPA900.0

**WELL TNX 27D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 15.7 ft (4.79 m) below TOC  
 Water elevation: 94.9 ft (28.93 m) msl  
 pH: 5.6  
 Sp. conductance: 58 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 6 gal

Time: 10:37  
 Water temperature: 18.5°C  
 Air temperature: 23.7°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): V

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.86E-10±4.13E-10	U			1.47E-09	µCi/mL	ML	RADA-001
0	Gross alpha	3.22E-09±7.07E-10				1.77E-09	µCi/mL	ML	EPA900.0

**WELL TRW 1**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 67.47 ft (20.57 m) below TOC  
 Water elevation: 88.83 ft (27.08 m) msl  
 pH: 5.4  
 Sp. conductance: 83 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 9:53  
 Water temperature: 22.7°C  
 Air temperature: 28.9°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	5.96				5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	90.1				5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.86E-09±5.29E-10				1.20E-09	µCi/mL	ML	RADA-001



**WELL TRW 2**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 65.07 ft (19.83 m) below TOC  
 Water elevation: 89.23 ft (27.2 m) msl  
 pH: 5.5  
 Sp. conductance: 63 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 12:55  
 Water temperature: 21.7°C  
 Air temperature: 38.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.81	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.09E-09±4.56E-10				1.13E-09	µCi/mL	ML	RADA-001

**WELL TRW 3**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Depth to water: 70.26 ft (21.42 m) below TOC  
 Water elevation: 84.24 ft (25.68 m) msl  
 pH: 5.8  
 Sp. conductance: 50 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 1 gal  
 The well was continuously pumping.

Time: 10:06  
 Water temperature: 22.9°C  
 Air temperature: 29.5°C  
 Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	9.36	J	K	O	5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.87E-09±4.93E-10				1.07E-09	µCi/mL	ML	RADA-001

**WELL XSB 1A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 60.85 ft (18.55 m) below TOC  
 Water elevation: 95.15 ft (29 m) msl  
 pH: 5.4  
 Sp. conductance: 72 µS/cm  
 Turbidity: 0 NTU  
 Water evacuated from the well prior to sampling: 139 gal

Time: 11:52  
 Water temperature: 23.4°C  
 Air temperature: 31.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 9 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL XSB 1B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 56.62 ft (17.26 m) below TOC  
 Water elevation: 99.28 ft (30.26 m) msl  
 pH: 5.4  
 Sp. conductance: 35 µS/cm  
 Turbidity: 6 NTU  
 Water evacuated from the well prior to sampling: 104 gal

Time: 11:03  
 Water temperature: 23.3°C  
 Air temperature: 30.8°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL XSB 1D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Depth to water: 60.84 ft (18.54 m) below TOC  
 Water elevation: 95.16 ft (29.01 m) msl  
 pH: 5.7  
 Sp. conductance: 78 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 15:30  
 Water temperature: 23.4°C  
 Air temperature: 38.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 3 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.13	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	9.56E-10±3.82E-10	U			1.21E-09	µCi/mL	ML	RADA-001
0	Gross alpha	1.52E-09±4.30E-10	J	I		1.20E-09	µCi/mL	ML	RADA-001

**WELL XSB 2D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 59.66 ft (18.18 m) below TOC  
 Water elevation: 95.14 ft (29 m) msl  
 pH: 5.6  
 Sp. conductance: 117 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 27 gal

Time: 11:09  
 Water temperature: 22.8°C  
 Air temperature: 28°C  
 Total alkalinity (as CaCO<sub>3</sub>): 6 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	2.65	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.55E-09±7.07E-10	J	I		1.92E-09	µCi/mL	ML	EPA900.0



**WELL XSB 3A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/03/01  
 Depth to water: 60.5 ft (18.44 m) below TOC  
 Water elevation: 96.5 ft (29.41 m) msl  
 pH: 5.4  
 Sp. conductance: 126 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 52 gal

Time: 12:27  
 Water temperature: 23°C  
 Air temperature: 35.4°C  
 Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Trichloroethylene	8.46				5.00	µg/L	WA	EPA8260B
0	Gross alpha	4.23E-09±8.19E-10				1.94E-09	µCi/mL	ML	EPA900.0

**WELL XSB 4D**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 59.6 ft (18.17 m) below TOC  
 Water elevation: 95.3 ft (29.05 m) msl  
 pH: 5.5  
 Sp. conductance: 96 µS/cm  
 Turbidity: 1 NTU  
 Water evacuated from the well prior to sampling: 31 gal

Time: 11:45  
 Water temperature: 22.1°C  
 Air temperature: 28.2°C  
 Total alkalinity (as CaCO<sub>3</sub>): 2 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.66	J	I		5.00	µg/L	WA	EPA8260B
0	Gross alpha	2.37E-09±6.96E-10	J	I		1.93E-09	µCi/mL	ML	EPA900.0

**WELL XSB 6**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Depth to water: 6.71 ft (2.05 m) below TOC  
 Water elevation: Not available  
 pH: 4.8  
 Sp. conductance: 54 µS/cm  
 Turbidity: 4 NTU  
 Water evacuated from the well prior to sampling: 4 gal

Time: 9:33  
 Water temperature: 20°C  
 Air temperature: 22.1°C  
 Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## LABORATORY ANALYSES

<i>F</i>	<i>Analyte</i>	<i>Result</i>	<i>FG</i>	<i>S</i>	<i>EMS</i>	<i>SQL</i>	<i>Unit</i>	<i>Lab</i>	<i>Method</i>
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.31	J	IK	O	5.00	µg/L	WA	EPA8260B
1	Trichloroethylene	4.39	J	IK	O	5.00	µg/L	WA	EPA8260B
1	Gross alpha	8.83E-09±9.89E-10				1.75E-09	µCi/mL	ML	EPA900.0
1	Gross alpha	9.92E-09±1.05E-09				1.77E-09	µCi/mL	ML	EPA900.0



*NOTES*



# *Appendix C. Sampling Blanks Results*

This section presents the analytical results for sampling blanks analyzed during second quarter 2001.



*NOTES*



**WELL EPT101B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0		U		10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0		U		10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B

**WELL EPT102B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.  
 Well EPT102B collected on 06/19/01 (cont.)

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

**WELL EPT103B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0		U		10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00		U		5.00	µg/L	WA	EPA8260B

**WELL EPT104B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well EPT104B collected on 06/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL EPT105B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	OX	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	OX	5.00	µg/L	WA	EPA8260B

**WELL EPT106B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Depth to water: Not available  
 Water elevation: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: Not available  
 Water temperature: Not available  
 Air temperature: Not available  
 Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	49.0			X	10.0	µg/L	WA	EPA8260B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Methyl ethyl ketone	21.2			X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



## WELL QA 2B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Water temperature: 22.8°C  
 Air temperature: 24.6°C  
 pH: 7.6  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 10:59

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0670	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	7.93	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	4.03				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-1.19E-10±3.24E-10	U			1.32E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-8.80E-10±1.27E-09	U			3.36E-09	µCi/mL	GP	EPA900.0
0	Tritium	-3.93E-07±3.97E-07	U			7.24E-07	µCi/mL	GP	RADA-002

## WELL QA 4B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Water temperature: Not available  
 Air temperature: 25.8°C  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available

Time: 12:29

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0540	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	6.47	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	1.95				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-3.25E-11±5.55E-10	U			1.69E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-2.71E-10±1.44E-09	U			3.42E-09	µCi/mL	GP	EPA900.0
0	Tritium	-5.59E-07±3.87E-07	U			7.22E-07	µCi/mL	GP	RADA-002

## WELL QA 6B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Water temperature: 20.9°C  
 Air temperature: 29.9°C  
 pH: 7.5  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 14:58

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<1.00	U			1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.86	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	11.7				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	3.71E-10±1.18E-09	U			2.93E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.28E-09±2.55E-09	JU	L	I	5.80E-09	µCi/mL	GP	EPA900.0
0	Tritium	7.73E-08±3.91E-07	U			6.76E-07	µCi/mL	GP	RADA-002

## WELL QA 8B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Water temperature: 23.1°C  
 Air temperature: 16.7°C  
 pH: 5  
 Sp. conductance: 1 µS/cm  
 Turbidity: 1 NTU

Time: 14:22

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.101	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<20.0	U	V		50.0	µg/L	GE	EPA353.1
0	pH	6.00	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	2.31				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-5.88E-11±6.08E-10	U			1.81E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-6.46E-10±1.33E-09	U			3.42E-09	µCi/mL	GP	EPA900.0
0	Tritium	-2.43E-07±3.74E-07	U			6.74E-07	µCi/mL	GP	RADA-002

## WELL QA 10B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/25/01  
 Water temperature: 23.1°C  
 Air temperature: 16.7°C  
 pH: 5  
 Sp. conductance: 1 µS/cm  
 Turbidity: 1 NTU

Time: 16:07

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Cadmium, total recoverable	<0.0920	U	V		1.00	µg/L	GE	EPA6020
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate-nitrite as nitrogen	<20.0	U	V		50.0	µg/L	GE	EPA353.1
0	pH	5.96	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	1.58				1.00	µS/cm	GE	EPA9050A
0	Gross alpha	-1.84E-10±6.88E-10	U			2.09E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	7.00E-11±1.62E-09	U			3.86E-09	µCi/mL	GP	EPA900.0
0	Tritium	-2.11E-07±3.84E-07	U			6.88E-07	µCi/mL	GP	RADA-002

## WELL QA 12B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Water temperature: 22.6°C  
 Air temperature: 18°C  
 pH: 8  
 Sp. conductance: 0 µS/cm  
 Turbidity: 1 NTU

Time: 8:54

Total alkalinity (as CaCO<sub>3</sub>): 8 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.58	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	1.27				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-6.24E-10±4.62E-10	JU	L	I	2.34E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-1.09E-09±1.50E-09	U			4.05E-09	µCi/mL	GP	EPA900.0
0	Tritium	-1.18E-07±3.75E-07	U			6.64E-07	µCi/mL	GP	RADA-002



**WELL QA 14B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.75	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.76	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	1.06				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	6.88E-10±9.78E-10	U			1.93E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.14E-11±1.80E-09	U			4.36E-09	µCi/mL	GP	EPA900.0
0	Tritium	-1.92E-07±3.60E-07	U			6.45E-07	µCi/mL	GP	RADA-002

**WELL QA 16B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/02/01  
 Water temperature: 24.9°C  
 Air temperature: 27°C  
 pH: 5.7  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 15:07

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<10.0	U	V		50.0	µg/L	GE	EPA353.1
0	pH	5.33	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	4.13				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	4.13E-11±1.22E-09	U			3.28E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	3.58E-10±1.85E-09	U			4.38E-09	µCi/mL	GP	EPA900.0
0	Tritium	1.47E-07±4.75E-07	U			8.14E-07	µCi/mL	GP	RADA-002

**WELL QA 18B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
 Water temperature: 15.2°C  
 Air temperature: 35.9°C  
 pH: 7  
 Sp. conductance: 2 µS/cm  
 Turbidity: 0 NTU

Time: 14:57

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.64	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	3.66				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	-3.72E-10±1.26E-09	U			4.00E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	1.23E-09±3.00E-09	U			6.89E-09	µCi/mL	GP	EPA900.0
0	Tritium	-1.76E-07±4.14E-07	U			7.39E-07	µCi/mL	GP	RADA-002

**WELL QA 20B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Water temperature: 20.9°C  
 Air temperature: 15.2°C  
 pH: 8.2  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 14:11

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.60	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	1.01				1.00	µS/cm	GE	EPA9050A
0	Specific conductance	1.01				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.0200	JU		4	0.500	µg/L	GE	EPA6020
0	Gross alpha	-2.76E-10±8.57E-10	U			2.97E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	-8.52E-10±2.57E-09	U			6.53E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.21E-07±4.12E-07	U			7.02E-07	µCi/mL	GP	RADA-002

**WELL QA 22B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/10/01  
 Water temperature: 26.2°C  
 Air temperature: 28.2°C  
 pH: 6.4  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 15:25

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	40.0	J	I	6	50.0	µg/L	GE	EPA353.1
0	pH	5.93	J	Q		0.100	pH	GE	EPA9040B
0	pH	5.92	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	22.0				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	5.53E-10±9.89E-10	U			2.00E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	2.12E-09±2.69E-09	U			5.88E-09	µCi/mL	GP	EPA900.0
0	Tritium	2.10E-07±4.30E-07	U			7.34E-07	µCi/mL	GP	RADA-002

**WELL QA 24B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/12/01  
 Water temperature: 24.2°C  
 Air temperature: 33.6°C  
 pH: 7  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 12:32

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L  
 Field Qualifier(s): S

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<0.200	U			0.200	µg/L	GE	EPA6020
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nitrate-nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA353.1
0	pH	5.54	J	Q		0.100	pH	GE	EPA9040B
0	Specific conductance	2.92				1.00	µS/cm	GE	EPA9050A
0	Thallium, total recoverable	<0.500	U			0.500	µg/L	GE	EPA6020
0	Gross alpha	2.67E-09±2.21E-09	U			3.32E-09	µCi/mL	GP	EPA900.0
0	Nonvolatile beta	6.09E-10±2.54E-09	U			5.96E-09	µCi/mL	GP	EPA900.0
0	Tritium	3.57E-07±3.29E-07	U			5.45E-07	µCi/mL	GP	RADA-002



# WELL QA 32B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
Water temperature: 22.1°C  
Air temperature: 24.3°C  
pH: 6.7  
Sp. conductance: 0 µS/cm  
Turbidity: 0 NTU

Time: 12:38

Total alkalinity (as CaCO3): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<23.0	U		23.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	0.290	J	I	2.00	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<3.00	U		3.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	<9.00	U		9.00	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<1.00	U		1.00	µg/L	WA	EPA7470A	
0	Selenium, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<10.0	U		10.0	µg/L	WA	EPA6010B	
0	Gross alpha	1.03E-09±1.86E-09	U		1.05E-08	µCi/mL	ML	RADA-001B	
0	Tritium	-1.54E-07±2.75E-07	U		5.09E-07	µCi/mL	ML	RADA-002	

# WELL QA 34B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/17/01  
Water temperature: 22.1°C  
Air temperature: 24.3°C  
pH: 6.7  
Sp. conductance: 0 µS/cm  
Turbidity: 0 NTU

Time: 10:54

Total alkalinity (as CaCO3): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<2.40	JU		23.0	µg/L	WA	EPA6010B	
0	Barium, total recoverable	<2.00	U		2.00	µg/L	WA	EPA6010B	
0	Cadmium, total recoverable	<3.00	U		3.00	µg/L	WA	EPA6010B	
0	Chromium, total recoverable	<0.940	JU	4	9.00	µg/L	WA	EPA6010B	
0	Lead, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Mercury, total recoverable	<1.00	U		1.00	µg/L	WA	EPA7470A	
0	Selenium, total recoverable	<26.0	U		26.0	µg/L	WA	EPA6010B	
0	Silver, total recoverable	<10.0	U		10.0	µg/L	WA	EPA6010B	
0	Gross alpha	6.77E-09±3.82E-09	U		1.09E-08	µCi/mL	ML	RADA-001B	
0	Tritium	-7.10E-09±2.91E-07	U		5.19E-07	µCi/mL	ML	RADA-002	

# WELL QA 40B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
Water temperature: 25.6°C  
Air temperature: 27°C  
pH: 8.9  
Sp. conductance: 1 µS/cm  
Turbidity: 0 NTU

Time: 14:01

Total alkalinity (as CaCO3): 1 mg/L  
Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	JU	L	I	50.0	µg/L	GE	EPA6010B
0	Aluminum, total recoverable	<50.0	JU	L	I	50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U		10.0	µg/L	GE	EPA6010B	
0	Antimony, total recoverable	<10.0	U		10.0	µg/L	GE	EPA6010B	
0	Arsenic, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Barium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Beryllium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Bis(2-ethylhexyl) phthalate	1.50		6	0.971	µg/L	GE	EPA8270C	
0	Cadmium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Calcium, total recoverable	<100	U		100	µg/L	GE	EPA6010B	
0	Calcium, total recoverable	<100	U		100	µg/L	GE	EPA6010B	
0	Chloride	<100	U		100	µg/L	GE	EPA9056	
0	Chromium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	

Well QA 40B collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Cobalt, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Cobalt, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Copper, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Copper, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Cyanide	<5.00	U		5.00	µg/L	GE	EPA9012A	
0	Lead, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Magnesium, total recoverable	<5.32	U	V	20.0	µg/L	GE	EPA6010B	
0	Magnesium, total recoverable	<7.84	U	V	20.0	µg/L	GE	EPA6010B	
0	Mercury, total recoverable	<0.200	U		0.200	µg/L	GE	EPA7470A	
0	Nickel, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Nickel, total recoverable	<0.775	JU	4	5.00	µg/L	GE	EPA6010B	
0	Nitrate-nitrite as nitrogen	<50.0	U		50.0	µg/L	GE	EPA353.1	
0	Phenols	6.78		6	5.00	µg/L	GE	EPA9066	
0	Selenium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Silver, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Sodium, total recoverable	<100	JU	L	I	100	µg/L	GE	EPA6010B
0	Sodium, total recoverable	<100	JU	L	I	100	µg/L	GE	EPA6010B
0	Sulfate	<200	U		200	µg/L	GE	EPA9056	
0	Thallium, total recoverable	<10.0	U		10.0	µg/L	GE	EPA6010B	
0	Thallium, total recoverable	<10.0	U		10.0	µg/L	GE	EPA6010B	
0	Total phosphates (as P)	<50.0	JU	L	I	50.0	µg/L	GE	EPA365.4
0	Vanadium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Vanadium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Zinc, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Zinc, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Actinium-228	1.01E-08±8.50E-09	U		1.65E-08	µCi/mL	GP	RADA-013	
0	Americium-241	3.72E-11±7.46E-11	U		1.12E-10	µCi/mL	GP	RADA-011	
0	Americium-241	9.06E-11±1.48E-10	U		2.72E-10	µCi/mL	GP	RADA-011	
0	Antimony-125	7.33E-10±5.90E-09	U		1.01E-08	µCi/mL	GP	RADA-013	
0	Bismuth-212	4.25E-09±1.66E-08	U		3.03E-08	µCi/mL	GP	RADA-013	
0	Bismuth-214	1.04E-09±1.14E-08	U		9.41E-09	µCi/mL	GP	RADA-013	
0	Carbon-14	8.36E-09±2.69E-08	U		4.61E-08	µCi/mL	GP	RADA-003	
0	Cesium-134	-9.95E-10±2.63E-09	U		3.88E-09	µCi/mL	GP	RADA-013	
0	Cesium-137	2.03E-09±2.44E-09	U		4.57E-09	µCi/mL	GP	RADA-013	
0	Cobalt-60	2.45E-09±2.38E-09	U		4.54E-09	µCi/mL	GP	RADA-013	
0	Curium-242	3.25E-11±8.80E-11	U		2.25E-10	µCi/mL	GP	RADA-011	
0	Curium-242	4.49E-11±1.22E-10	U		3.12E-10	µCi/mL	GP	RADA-011	
0	Curium-243/244	1.03E-10±1.31E-10	U		1.97E-10	µCi/mL	GP	RADA-011	
0	Curium-243/244	3.92E-11±1.06E-10	U		2.72E-10	µCi/mL	GP	RADA-011	
0	Curium-245/246	3.02E-10±2.32E-10	R	4	1.30E-10	µCi/mL	GP	RADA-011	
0	Curium-245/246	5.98E-11±1.20E-10	U		1.79E-10	µCi/mL	GP	RADA-011	
0	Europium-152	-1.46E-09±5.89E-09	U		9.83E-09	µCi/mL	GP	RADA-013	
0	Europium-154	3.02E-09±5.21E-09	U		1.04E-08	µCi/mL	GP	RADA-013	
0	Europium-155	2.69E-09±6.17E-09	U		1.08E-08	µCi/mL	GP	RADA-013	
0	Gross alpha	1.07E-09±4.19E-10	J	IL	16	5.18E-10	µCi/mL	GP	EPA900.0
0	Iodine-129	1.19E-11±6.86E-10	U		1.26E-09	µCi/mL	GP	RADA-006	
0	Iodine-129	-3.19E-10±7.32E-10	U		1.28E-09	µCi/mL	GP	RADA-006	
0	Lead-212	7.12E-09±3.79E-09	R	4	6.92E-09	µCi/mL	GP	RADA-013	
0	Nonvolatile beta	5.40E-10±7.74E-10	U		1.82E-09	µCi/mL	GP	EPA900.0	
0	Plutonium-238	0.00E+00±2.00E-09	U		1.54E-10	µCi/mL	GP	RADA-011	
0	Plutonium-238	0.00E+00±2.01E-09	U		1.83E-10	µCi/mL	GP	RADA-011	
0	Plutonium-239/240	3.70E-11±7.43E-11	U		1.11E-10	µCi/mL	GP	RADA-011	
0	Plutonium-239/240	3.34E-11±9.06E-11	U		2.32E-10	µCi/mL	GP	RADA-011	
0	Potassium-40	1.72E-08±2.16E-08	U		4.40E-08	µCi/mL	GP	RADA-013	
0	Promethium-146	-1.70E-09±3.07E-09	U		4.53E-09	µCi/mL	GP	RADA-013	
0	Radium-226	2.40E-10±2.49E-10	U		3.74E-10	µCi/mL	GP	RADA-008	
0	Radium-228	8.89E-11±5.24E-10	U		1.16E-09	µCi/mL	GP	RADA-009	
0	Radium-228	4.28E-10±5.35E-10	U		1.13E-09	µCi/mL	GP	RADA-009	
0	Strontium-90	1.10E-10±2.46E-10	U		5.45E-10	µCi/mL	GP	RADA-004	
0	Strontium-90	-1.33E-10±2.47E-10	U		5.97E-10	µCi/mL	GP	RADA-004	
0	Technetium-99	-4.38E-10±9.16E-09	U		2.25E-08	µCi/mL	GP	RADA-005	
0	Technetium-99	5.29E-09±9.53E-09	U		2.21E-08	µCi/mL	GP	RADA-005	
0	Thallium-208	2.96E-09±2.31E-09	U		4.45E-09	µCi/mL	GP	RADA-013	
0	Thorium-228	1.39E-10±1.69E-10	U		3.16E-10	µCi/mL	GP	RADA-012	
0	Thorium-228	2.31E-11±1.23E-10	U		2.83E-10	µCi/mL	GP	RADA-012	
0	Thorium-230	1.63E-10±1.30E-10	J	I	6	1.62E-10	µCi/mL	GP	RADA-012
0	Thorium-230	5.39E-11±6.85E-11	U		1.14E-10	µCi/mL	GP	RADA-012	
0	Thorium-232	0.00E+00±2.01E-09	U		6.19E-11	µCi/mL	GP	RADA-012	
0	Thorium-232	1.97E-11±6.29E-11	U		1.52E-10	µCi/mL	GP	RADA-012	
0	Tritium	-6.01E-08±5.25E-07	U		9.13E-07	µCi/mL	GP	RADA-002	
0	Tritium	-7.92E-08±5.32E-07	U		9.27E-07	µCi/mL	GP	RADA-002	
0	Uranium-233/234	-2.06E-11±7.18E-11	U		2.73E-10	µCi/mL	GP	RADA-011	
0	Uranium-233/234	8.25E-11±1.23E-10	U		2.38E-10	µCi/mL	GP	RADA-011	
0	Uranium-235	3.89E-11±8.97E-11	U		2.11E-10	µCi/mL	GP	RADA-011	
0	Uranium-235	2.96E-11±5.92E-11	U		8.87E-11	µCi/mL	GP	RADA-011	
0	Uranium-238	-2.91E-11±2.93E-11	U		2.29E-10	µCi/mL	GP	RADA-011	
0	Uranium-238	2.24E-11±6.07E-11	U		1.56E-10	µCi/mL	GP	RADA-011	



## WELL QA 44B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/18/01  
 Water temperature: 26.7°C  
 Air temperature: 28.1°C  
 pH: 5.6  
 Sp. conductance: 2 µS/cm  
 Turbidity: 0 NTU

Time: 14:04

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Benzo(a)anthracene	<1.00	U		1.00	µg/L	GE	EPA8270C	
0	Benzo(b)fluoranthene	<1.00	U		1.00	µg/L	GE	EPA8270C	
0	Benzo(k)fluoranthene	<1.00	U		1.00	µg/L	GE	EPA8270C	
0	Benzo(a)pyrene	<1.00	U		1.00	µg/L	GE	EPA8270C	
0	Chromium, total recoverable	<5.00	U		5.00	µg/L	GE	EPA6010B	
0	Chrysene	<1.00	U		1.00	µg/L	GE	EPA8270C	
0	Endrin	<0.0396	U		0.0396	µg/L	GE	EPA8081A	
0	Manganese, total recoverable	<10.0	U		10.0	µg/L	GE	EPA6010B	
0	Octachlorodibenzo-p-dioxin	<0.0100	U		0.0100	µg/L	GE	EPA8280	
0	PCB 1260	<0.100	U		0.100	µg/L	GE	EPA8082	
0	Radium, total alpha-emitting	6.10E-11±7.70E-11	U		1.50E-10	µCi/mL	GP	RADA-010	
0	Tritium	-3.29E-07±5.33E-07	U		9.44E-07	µCi/mL	GP	RADA-002	

## WELL QA 46B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Water temperature: 26.4°C  
 Air temperature: 28°C  
 pH: 5.4  
 Sp. conductance: 2 µS/cm  
 Turbidity: 1 NTU

Time: 14:05

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Actinium-228	3.81E-09±1.11E-08	U		6	9.18E-09	µCi/mL	GP	RADA-013
0	Actinium-228	6.83E-09±6.75E-09	R		4	6.82E-09	µCi/mL	GP	RADA-013
0	Antimony-125	6.98E-10±2.49E-09	U			4.19E-09	µCi/mL	GP	RADA-013
0	Antimony-125	1.10E-09±3.41E-09	U			6.22E-09	µCi/mL	GP	RADA-013
0	Bismuth-212	3.78E-09±1.00E-08	U			1.82E-08	µCi/mL	GP	RADA-013
0	Bismuth-212	6.25E-09±9.27E-09	U			1.13E-08	µCi/mL	GP	RADA-013
0	Bismuth-214	5.24E-09±4.25E-09	R		4	3.88E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	4.59E-09±2.61E-09	U		6	5.11E-09	µCi/mL	GP	RADA-013
0	Cesium-134	1.70E-10±8.65E-10	U			1.36E-09	µCi/mL	GP	RADA-013
0	Cesium-134	-7.90E-10±1.21E-09	U			2.03E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.32E-10±8.81E-10	U			1.56E-09	µCi/mL	GP	RADA-013
0	Cesium-137	5.56E-10±1.15E-09	U			2.14E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	4.73E-10±9.07E-10	U			1.71E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	8.60E-10±1.52E-09	U			2.91E-09	µCi/mL	GP	RADA-013
0	Europium-152	-7.33E-10±2.72E-09	U			4.48E-09	µCi/mL	GP	RADA-013
0	Europium-152	-2.86E-09±3.97E-09	U			6.33E-09	µCi/mL	GP	RADA-013
0	Europium-154	-2.61E-10±2.58E-09	U			4.40E-09	µCi/mL	GP	RADA-013
0	Europium-154	2.46E-09±3.42E-09	U			6.86E-09	µCi/mL	GP	RADA-013
0	Europium-155	-1.37E-09±3.39E-09	U			5.80E-09	µCi/mL	GP	RADA-013
0	Europium-155	4.19E-09±4.69E-09	U			8.44E-09	µCi/mL	GP	RADA-013
0	Iodine-129	-3.95E-10±4.43E-10	U			7.24E-10	µCi/mL	GP	RADA-006
0	Lead-212	4.98E-11±3.26E-09	U			3.26E-09	µCi/mL	GP	RADA-013
0	Lead-212	4.52E-09±4.29E-09	U			4.98E-09	µCi/mL	GP	RADA-013
0	Potassium-40	3.41E-08±1.27E-08	R		4	2.50E-08	µCi/mL	GP	RADA-013
0	Potassium-40	8.80E-09±2.78E-08	U		6	2.28E-08	µCi/mL	GP	RADA-013
0	Promethium-146	4.25E-10±1.16E-09	U			1.96E-09	µCi/mL	GP	RADA-013
0	Promethium-146	2.47E-10±1.54E-09	U			2.79E-09	µCi/mL	GP	RADA-013
0	Strontium-90	-1.34E-10±2.60E-10	U			6.60E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-2.44E-09±8.29E-09	U			2.09E-08	µCi/mL	GP	RADA-005
0	Thallium-208	4.42E-10±1.84E-09	U			1.84E-09	µCi/mL	GP	RADA-013
0	Thallium-208	1.24E-09±1.28E-09	U			2.43E-09	µCi/mL	GP	RADA-013

## WELL QA 48B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Water temperature: 23°C  
 Air temperature: 20°C  
 pH: 8  
 Sp. conductance: 1 µS/cm  
 Turbidity: 1 NTU

Time: 10:14

Total alkalinity (as CaCO<sub>3</sub>): 7 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	0.210	J	I	6	1.80	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	JU	L	C	15.2	µg/L	WA	EPA9014
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<20.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	<340	U			340	µg/L	WA	EPA9056
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Total dissolved solids	<18,000	U	V		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	<1,000	U			1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U			120	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-1.20E-08±2.76E-08	U			4.85E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.54E-09±1.56E-09	U			1.42E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-1.68E-09±2.06E-09	U			1.17E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	9.90E-11±1.22E-10	U			2.26E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	-9.00E-12±6.10E-11	U			2.40E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.89E-10±2.31E-10	J	I	6	1.89E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.26E-09±5.52E-10	J	I	6	9.88E-10	µCi/mL	GP	RADA-009
0	Strontium-90	1.39E-10±3.15E-10	U			7.17E-10	µCi/mL	GP	RADA-004
0	Tritium	-4.04E-08±2.77E-07	U			4.98E-07	µCi/mL	ML	RADA-002

## WELL QA 50B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: 25.6°C  
 Air temperature: 27°C  
 pH: 9  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 12:32

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<6.70	U			6.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<0.270	U	V		1.80	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	2.26	J	I	X6	15.2	µg/L	WA	EPA9014
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<20.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	<340	U			340	µg/L	WA	EPA9056



# SAMPLING BLANKS RESULTS

Well QA 50B collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Total dissolved solids	<50,000	U			50,000	µg/L	WA	EPA160.1
0	Total organic carbon	178	J	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U		X	120	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-3.71E-09±2.76E-08	U			4.80E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-2.05E-09±5.87E-10	U			1.50E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-4.09E-09±1.83E-09	U			1.47E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	3.50E-11±2.01E-10	U			5.82E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.69E-10±2.48E-10	U			3.29E-10	µCi/mL	GP	RADA-008
0	Radium-228	8.00E-10±6.14E-10	U			1.20E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-6.39E-11±4.49E-10	U			1.09E-09	µCi/mL	GP	RADA-004
0	Tritium	0.00E+00±3.53E-07	U			6.26E-07	µCi/mL	ML	RADA-002

## WELL QA 52B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<2.20	U	V		1.80	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<0.810	JU		4	7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	15.0	J	I	6	20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	JU	Q		37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<1.20	JU		4	5.00	µg/L	WA	EPA6010B
0	Sulfate	<340	U			340	µg/L	WA	EPA9056
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Total dissolved solids	<50,000	JU	Q		50,000	µg/L	WA	EPA160.1
0	Total dissolved solids	<50,000	JU	Q		50,000	µg/L	WA	EPA160.1
0	Total organic carbon	198	J	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	JU	Q	X	120	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	-2.83E-09±1.36E-08	U			2.37E-08	µCi/mL	GP	RADA-003
0	Gross alpha	3.34E-09±2.65E-09	U			1.01E-08	µCi/mL	ML	RADA-001
0	Nonvolatile beta	2.77E-09±2.62E-09	U			1.13E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	3.50E-11±8.10E-11	U	V		2.06E-10	µCi/mL	GP	RADA-010
0	Radium-226	3.59E-10±3.59E-10	U			5.64E-10	µCi/mL	GP	RADA-008
0	Radium-228	5.95E-10±4.41E-10	U			8.78E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-6.74E-11±3.11E-10	U	V		7.37E-10	µCi/mL	GP	RADA-004
0	Tritium	7.91E-06±7.09E-07	U		6	6.32E-07	µCi/mL	ML	RADA-002

## WELL QA 54B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

Well QA 54B collected on 06/16/01 (cont.)

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<1.00	U	V		7,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	2.10	J	I	6	8.30	µg/L	WA	EPA6010B
0	Boron, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<11.0	U			11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<1.60	U			1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	6.00	J	I	6	57.0	µg/L	WA	EPA353.2
0	Phenols	4.35	J	I	6	34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	163	J	I	6	320	µg/L	WA	EPA300.0
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Total dissolved solids	<30,000	JU	Q		30,000	µg/L	WA	EPA160.1
0	Total organic carbon	404	J	I	X6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	<57.8	U			57.8	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Carbon-14	-7.31E-10±8.96E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Gross alpha	1.85E-09±2.01E-09	U			9.13E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	-1.58E-09±1.85E-09	U			1.15E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	8.20E-11±4.06E-10	U			1.09E-09	µCi/mL	GP	RADA-010
0	Radium-226	1.00E-09±4.90E-10	J	I	6	5.48E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.69E-10±4.83E-10	U			9.49E-10	µCi/mL	GP	RADA-009
0	Strontium-90	6.42E-11±3.47E-10	U			7.91E-10	µCi/mL	GP	RADA-004
0	Tritium	5.73E-08±3.59E-07	U			6.31E-07	µCi/mL	ML	RADA-002

## WELL QA 56B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: 25.6°C  
 Air temperature: 27°C  
 pH: 8.9  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 10:20

Total alkalinity (as CaCO3): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO3)	<6.70	U			6,700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<27.0	U			27.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<40.0	U			40.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<0.200	U	V		1.80	µg/L	WA	EPA6010B
0	Boron, total recoverable	<266	U			266	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.70	U			4.70	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<7.00	U			7.00	µg/L	WA	EPA6010B
0	Copper, total recoverable	<15.0	U			15.0	µg/L	WA	EPA6010B
0	Cyanide	<15.2	U		X	15.2	µg/L	WA	EPA9014
0	Cyanide	<15.2	U			15.2	µg/L	WA	EPA9014
0	Lead, total recoverable	<47.0	U			47.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<2.70	U			2.70	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.700	U			0.700	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<26.0	U			26.0	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<20.0	U			20.0	µg/L	WA	EPA353.2
0	Phenols	<37.0	U			37.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<66.0	U			66.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	WA	EPA6010B
0	Sulfate	<340	U			340	µg/L	WA	EPA9056
0	Tin, total recoverable	<70.0	U			70.0	µg/L	WA	EPA6010B
0	Total dissolved solids	5,000	J	I	6	50,000	µg/L	WA	EPA160.1
0	Total organic carbon	190	J	I	6	1,000	µg/L	WA	EPA9060
0	Total organic halogens	<120	U	X		120	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<53.0	U			53.0	µg/L	WA	EPA6010B
0	Carbon-14	1.08E-08±2.70E-08	U			4.61E-08	µCi/mL	GP	RADA-003
0	Carbon-14	2.17E-09±2.67E-08	U			4.61E-08	µCi/mL	GP	RADA-003
0	Gross alpha	-1.90E-09±5.41E-10	U			1.38E-08	µCi/mL	ML	RADA-001B
0	Nonvolatile beta	-1.15E-09±2.37E-09	U			1.41E-08	µCi/mL	ML	RADA-001B
0	Radium, total alpha-emitting	6.30E-11±1.83E-10	U			4.84E-10	µCi/mL	GP	RADA-010



Well QA 56B collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium-226	1.03E-10±1.78E-10	U			3.20E-10	µCi/mL	GP	RADA-008
0	Radium-228	-2.59E-11±4.25E-10	U			9.14E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-1.00E-10±4.17E-10	U			1.02E-09	µCi/mL	GP	RADA-004
0	Tritium	9.53E-08±3.59E-07	U			6.25E-07	µCi/mL	ML	RADA-002

**WELL QA 58B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Water temperature: 25°C  
 Air temperature: 30.1°C  
 pH: 5.6  
 Sp. conductance: 1 µS/cm  
 Turbidity: 1 NTU

Time: 10:19

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Alkalinity (as CaCO <sub>3</sub> )	<7.70	U			7.700	mg/L	WA	EPA310.1
0	Antimony, total recoverable	<20.0	U			20.0	µg/L	WA	EPA6010B
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Barium, total recoverable	<8.30	U			8.30	µg/L	WA	EPA6010B
0	Boron, total recoverable	<2.70	U	V		20.0	µg/L	WA	EPA6010B
0	Cadmium, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Chromium, total recoverable	<11.0	U			11.0	µg/L	WA	EPA6010B
0	Copper, total recoverable	<5.50	U			5.50	µg/L	WA	EPA6010B
0	Cyanide	<33.0	U			33.0	µg/L	WA	EPA9014
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B
0	Lithium, total recoverable	<1.60	U			1.60	µg/L	WA	EPA6010B
0	Mercury, total recoverable	<0.300	U			0.300	µg/L	WA	EPA7470A
0	Nickel, total recoverable	<4.10	U			4.10	µg/L	WA	EPA6010B
0	Nitrate-nitrite as nitrogen	<57.0	U			57.0	µg/L	WA	EPA353.2
0	Phenols	3.89	J	I	6	34.0	µg/L	WA	EPA9066
0	Selenium, total recoverable	<31.0	U			31.0	µg/L	WA	EPA6010B
0	Silver, total recoverable	<6.80	U			6.80	µg/L	WA	EPA6010B
0	Sulfate	161	J	I	6	320	µg/L	WA	EPA300.0
0	Tin, total recoverable	<63.0	U			63.0	µg/L	WA	EPA6010B
0	Total dissolved solids	<30,000	U			30,000	µg/L	WA	EPA160.1
0	Total organic carbon	219	J	I	6	1,400	µg/L	WA	EPA9060
0	Total organic halogens	<57.8	U			57.8	µg/L	WA	EPA9020B
0	Zinc, total recoverable	<58.0	U			58.0	µg/L	WA	EPA6010B
0	Gross alpha	-1.03E-09±3.51E-10	U			9.69E-09	µCi/mL	ML	RADA-001
0	Nonvolatile beta	4.48E-09±2.89E-09	U			1.19E-08	µCi/mL	ML	RADA-001
0	Radium, total alpha-emitting	2.19E-10±3.20E-10	U			6.33E-10	µCi/mL	GP	RADA-010
0	Radium-226	1.61E-10±1.90E-10	U			3.01E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.20E-10±4.33E-10	U			8.43E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-9.47E-11±2.65E-10	U			6.54E-10	µCi/mL	GP	RADA-004
0	Tritium	-4.08E-07±3.33E-07	U			6.40E-07	µCi/mL	ML	RADA-002

**WELL QA 60B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Water temperature: 25°C  
 Air temperature: 30°C  
 pH: 5.6  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 15:15

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	5.21E-10±9.00E-09	U			1.56E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	8.60E-11±2.69E-10	U			7.44E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.73E-10±2.55E-10	J	I	6	2.31E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.92E-10±4.99E-10	U			1.09E-09	µCi/mL	GP	RADA-009
0	Strontium-90	2.10E-10±2.94E-10	U			6.48E-10	µCi/mL	GP	RADA-004
0	Strontium-90	1.56E-10±2.90E-10	U			6.52E-10	µCi/mL	GP	RADA-004

**WELL QA 62B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	2.87E-09±8.71E-09	U			1.49E-08	µCi/mL	GP	RADA-003
0	Carbon-14	4.33E-09±8.82E-09	U			1.50E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	3.77E-10±4.15E-10	U			7.97E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.02E-11±2.34E-10	U			4.79E-10	µCi/mL	GP	RADA-008
0	Radium-228	9.44E-10±6.43E-10	U	V		1.29E-09	µCi/mL	GP	RADA-009
0	Strontium-90	7.16E-11±3.61E-10	R	L	I	8.45E-10	µCi/mL	GP	RADA-004

**WELL QA 64B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
 Water temperature: 20.1°C  
 Air temperature: 37.8°C  
 pH: 5.1  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 17:29

Total alkalinity (as CaCO<sub>3</sub>): 0 mg/L  
 Phenolphthalein alkalinity: 0 mg/L

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	-7.03E-09±1.42E-08	U			2.49E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	2.90E-11±6.30E-11	U			8.70E-11	µCi/mL	GP	RADA-010
0	Radium-226	1.83E-10±2.78E-10	U			4.81E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.01E-10±5.37E-10	U			1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-2.47E-10±3.07E-10	U			8.19E-10	µCi/mL	GP	RADA-004
0	Strontium-90	-5.12E-10±2.66E-10	U			8.06E-10	µCi/mL	GP	RADA-004

**WELL QA 66B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	2.03E-08±2.80E-08	U			4.73E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	2.39E-10±2.86E-10	U			4.95E-10	µCi/mL	GP	RADA-010
0	Radium-226	2.98E-10±2.30E-10	J	I	6	2.73E-10	µCi/mL	GP	RADA-008
0	Radium-228		J	I	6	1.16E-09	µCi/mL	GP	RADA-009
0	Strontium-90	-1.57E-10±4.15E-10	U			9.95E-10	µCi/mL	GP	RADA-004

**WELL QA 68B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Water temperature: 24.2°C  
 Air temperature: 19.4°C  
 pH: 7.4  
 Sp. conductance: 1 µS/cm  
 Turbidity: 0 NTU

Time: 13:16

Total alkalinity (as CaCO<sub>3</sub>): 1 mg/L  
 Phenolphthalein alkalinity: 0 mg/L



Well QA 68B collected on 05/23/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	-8.84E-09±1.33E-08	U			2.36E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	2.25E-10±1.62E-10	U	V		8.50E-11	µCi/mL	GP	RADA-010
0	Radium-226	2.24E-10±1.73E-10	J	I	6	2.05E-10	µCi/mL	GP	RADA-008
0	Radium-226	2.38E-10±2.00E-10	U			2.49E-10	µCi/mL	GP	RADA-008
0	Radium-228	3.09E-10±3.93E-10	U			8.29E-10	µCi/mL	GP	RADA-009
0	Strontium-90	3.17E-10±4.81E-10	U			1.04E-09	µCi/mL	GP	RADA-004

## WELL QA 70B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon-14	5.42E-09±1.45E-08	U			2.47E-08	µCi/mL	GP	RADA-003
0	Radium, total alpha-emitting	1.11E-10±2.55E-10	U			6.05E-10	µCi/mL	GP	RADA-010
0	Radium, total alpha-emitting	-2.20E-11±2.54E-10	U			8.16E-10	µCi/mL	GP	RADA-010
0	Radium-226	4.66E-10±3.21E-10	J	I	6	4.30E-10	µCi/mL	GP	RADA-008
0	Radium-228	1.33E-09±6.22E-10	J	I	6	1.17E-09	µCi/mL	GP	RADA-009
0	Strontium-90	4.19E-10±3.59E-10	R	L	I	7.56E-10	µCi/mL	GP	RADA-004

## WELL QA 72B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/15/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

## WELL QA 76B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/03/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Bis(2-ethylhexyl) phthalate	<0.990	U			0.990	µg/L	GE	EPA8270C
0	Chromium, hexavalent	10.0	R	L	I	10.0	µg/L	GE	EPA7196A
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Gross alpha	3.55E-10±3.81E-10	U			7.19E-10	µCi/mL	GP	EPA900.0
0	Radium-226	4.52E-10±4.30E-10	U			6.61E-10	µCi/mL	GP	RADA-008
0	Radium-228	7.11E-10±5.99E-10	U			1.22E-09	µCi/mL	GP	RADA-009
0	Uranium-233/234	2.71E-11±4.75E-11	U			9.07E-11	µCi/mL	GP	RADA-011
0	Uranium-235	-1.70E-11±4.55E-11	U			1.25E-10	µCi/mL	GP	RADA-011
0	Uranium-238	2.96E-12±2.61E-11	U			7.34E-11	µCi/mL	GP	RADA-011

## WELL QA 78B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	-1.44E-07±3.47E-07	U			6.32E-07	µCi/mL	ML	RADA-002

## WELL QA 80B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tritium	-1.58E-07±3.20E-07	U			5.89E-07	µCi/mL	ML	RADA-002

## WELL QA 92B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B

## WELL QA 94B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Arsenic, total recoverable	<42.0	U			42.0	µg/L	WA	EPA6010B
0	Lead, total recoverable	<24.0	U			24.0	µg/L	WA	EPA6010B



## WELL QA 96B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
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0	Gross alpha	-2.47E-10±1.82E-10	U		9.38E-10		µCi/mL	ML	RADA-001
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## WELL QA 98B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/02/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
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0	Gross alpha	3.12E-10±4.67E-10	U		1.66E-09		µCi/mL	ML	EPA900.0
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## WELL QA 112B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
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0	Aluminum, total recoverable	<50.0	U		50.0		µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U		10.0		µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Barium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Calcium, total recoverable	<100	U		100		µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Cobalt, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Copper, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Cyanide	<5.00	JU	Q	5.00		µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U		50.0		µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Magnesium, total recoverable	5.29	J	IV	20.0		µg/L	GE	EPA6010B
0	Manganese, total recoverable	<10.0	U		10.0		µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U		0.200		µg/L	GE	EPA7470A
0	Nickel, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Nitrate as nitrogen	<50.0	U		50.0		µg/L	GE	EPA300.0
0	Nitrate as nitrogen	<50.0	U		50.0		µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U		50.0		µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U		50.0		µg/L	GE	EPA300.0
0	Potassium, total recoverable	<100	U		100		µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Sodium, total recoverable	<100	U		100		µg/L	GE	EPA6010B
0	Sulfate	<200	U		200		µg/L	GE	EPA300.0
0	Sulfate	<200	U		200		µg/L	GE	EPA300.0
0	Thallium, total recoverable	<4.42	JU		10.0		µg/L	GE	EPA6010B
0	Total phosphates (as P)	40.0	J	I	6		µg/L	GE	EPA9056

Well QA 112B collected on 06/14/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
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0	Vanadium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Zinc, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Actinium-228	7.99E-09±7.01E-09	U		1.38E-08		µCi/mL	GP	RADA-013
0	Americium-241	-1.24E-11±1.62E-10	U		3.80E-10		µCi/mL	GP	RADA-011
0	Americium-241	-6.60E-11±2.23E-10	U		5.32E-10		µCi/mL	GP	RADA-011
0	Americium-243	2.95E-11±1.26E-09	U		2.08E-10		µCi/mL	GP	RADA-011
0	Americium-243	1.31E-10±1.14E-09	U		2.04E-10		µCi/mL	GP	RADA-011
0	Antimony-125	5.41E-09±6.49E-09	U		8.58E-09		µCi/mL	GP	RADA-013
0	Barium-133	5.10E-10±2.49E-09	U		4.33E-09		µCi/mL	GP	RADA-013
0	Bismuth-214	7.55E-09±5.53E-09	JU	IV	5.27E-09		µCi/mL	GP	RADA-013
0	Carbon-14	-6.78E-09±1.32E-08	U		2.33E-08		µCi/mL	GP	RADA-003
0	Carbon-14	4.46E-09±1.36E-08	U		2.34E-08		µCi/mL	GP	RADA-003
0	Cesium-134	1.07E-09±2.16E-09	U		3.15E-09		µCi/mL	GP	RADA-013
0	Cesium-137	1.35E-09±3.63E-09	U		2.68E-09		µCi/mL	GP	RADA-013
0	Cobalt-60	3.65E-10±1.87E-09	U		3.27E-09		µCi/mL	GP	RADA-013
0	Curium-242	3.35E-11±8.05E-11	U		2.36E-10		µCi/mL	GP	RADA-011
0	Curium-242	-5.71E-11±8.68E-11	U		3.46E-10		µCi/mL	GP	RADA-011
0	Curium-243/244	8.93E-11±1.64E-10	U		3.36E-10		µCi/mL	GP	RADA-011
0	Curium-243/244	-5.45E-11±2.51E-10	U		5.82E-10		µCi/mL	GP	RADA-011
0	Curium-245/246	1.63E-10±1.45E-10	U		2.25E-10		µCi/mL	GP	RADA-011
0	Curium-245/246	-5.91E-11±1.33E-10	U		3.88E-10		µCi/mL	GP	RADA-011
0	Europium-152	5.11E-09±7.88E-09	U		8.91E-09		µCi/mL	GP	RADA-013
0	Europium-154	-3.51E-10±5.21E-09	U		9.77E-09		µCi/mL	GP	RADA-013
0	Europium-155	5.49E-11±7.12E-09	U		1.16E-08		µCi/mL	GP	RADA-013
0	Gross alpha	2.23E-10±4.34E-10	JU	L	CI	9.95E-10	µCi/mL	GP	EPA900.0
0	Iodine-129	2.26E-10±6.69E-10	U		1.27E-09		µCi/mL	GP	RADA-006
0	Iodine-129	3.31E-10±7.55E-10	U		1.43E-09		µCi/mL	GP	RADA-006
0	Lead-212	4.12E-09±6.06E-09	U		6.94E-09		µCi/mL	GP	RADA-013
0	Lead-214	3.29E-09±5.57E-09	U		7.31E-09		µCi/mL	GP	RADA-013
0	Neptunium-237	5.65E-11±1.03E-10	U		2.11E-10		µCi/mL	GP	RADA-032
0	Nonvolatile beta	1.30E-09±1.15E-09	U		2.65E-09		µCi/mL	GP	EPA900.0
0	Plutonium-238	-8.45E-12±1.65E-11	U		1.86E-10		µCi/mL	GP	RADA-011
0	Plutonium-239/240	<0.00E+00	U		1.06E-10		µCi/mL	GP	RADA-011
0	Potassium-40	1.70E-08±3.46E-08	U		3.31E-08		µCi/mL	GP	RADA-013
0	Promethium-146	9.57E-10±2.42E-09	U		4.27E-09		µCi/mL	GP	RADA-013
0	Radium, total alpha-emitting	-9.94E-11±2.76E-11	U		5.92E-10		µCi/mL	GP	RADA-010
0	Radium-226	6.	U		6.60E-10		µCi/mL	GP	RADA-008
0	Radium-226	8.83E-10±6.49E-10	J	I	6	6	µCi/mL	GP	RADA-008
0	Radium-228	6.95E-10±5.35E-10	U		1.14E-09		µCi/mL	GP	RADA-009
0	Strontium-90	1.11E-11±3.98E-10	U		8.88E-10		µCi/mL	GP	RADA-004
0	Technetium-99	2.71E-09±1.23E-08	U		2.11E-08		µCi/mL	GP	RADA-005
0	Technetium-99	4.86E-09±1.27E-08	U		2.16E-08		µCi/mL	GP	RADA-005
0	Thallium-208	1.88E-09±1.88E-09	U		3.47E-09		µCi/mL	GP	RADA-013
0	Thorium-228	6.86E-11±9.99E-11	U		2.04E-10		µCi/mL	GP	RADA-012
0	Thorium-228	-7.09E-12±9.33E-11	U		2.29E-10		µCi/mL	GP	RADA-012
0	Thorium-230	3.15E-11±4.28E-11	U		7.82E-11		µCi/mL	GP	RADA-012
0	Thorium-230	5.63E-11±5.58E-11	U		7.75E-11		µCi/mL	GP	RADA-012
0	Thorium-232	2.07E-11±2.87E-11	U		3.10E-11		µCi/mL	GP	RADA-012
0	Thorium-232	<0.00E+00	U		3.74E-11		µCi/mL	GP	RADA-012
0	Tritium	-2.65E-07±2.52E-07	U		4.58E-07		µCi/mL	GP	RADA-002
0	Tritium	-3.99E-07±2.70E-07	U		4.99E-07		µCi/mL	GP	RADA-002
0	Uranium-233/234	7.82E-13±5.26E-11	U		1.83E-10		µCi/mL	GP	RADA-011
0	Uranium-235	-5.86E-12±1.15E-11	U		1.28E-10		µCi/mL	GP	RADA-011
0	Uranium-238	-3.51E-11±2.81E-11	U		2.08E-10		µCi/mL	GP	RADA-011

## WELL QA 114B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
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0	Aluminum, total recoverable	<50.0	U		50.0		µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U		10.0		µg/L	GE	EPA6010B
0	Arsenic, total recoverable	5.40	U	6	5.00		µg/L	GE	EPA6010B
0	Barium, total recoverable	<0.206	U		5.00		µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U		5.00		µg/L	GE	EPA6010B
0	Calcium, total recoverable	<100	U	5	100		µg/L	GE	EPA6010B



Well QA 114B collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U		5	50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	<6.94	U	V	5	20.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	<10.0	U		5	10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate as nitrogen	108			6	50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	<16.2	JU	LV	I	100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	<100	U			100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	30.0	J	I	6	50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Actinium-228	3.16E-08±1.82E-08	R		4	1.53E-08	µCi/mL	GP	RADA-013
0	Americium-241	-5.61E-12±3.02E-10	U			6.71E-10	µCi/mL	GP	RADA-011
0	Americium-243	2.62E-10±1.35E-09	U			1.74E-10	µCi/mL	GP	RADA-011
0	Antimony-125	-1.35E-09±4.65E-09	U			8.07E-09	µCi/mL	GP	RADA-013
0	Barium-133	1.72E-09±2.68E-09	U			4.45E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	5.85E-09±6.46E-09	U			8.39E-09	µCi/mL	GP	RADA-013
0	Carbon-14	-1.06E-08±1.30E-08	U			2.33E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.18E-09±2.14E-09	U			3.03E-09	µCi/mL	GP	RADA-013
0	Cesium-137	1.44E-10±2.05E-09	U			3.62E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-2.77E-11±1.90E-09	U			3.54E-09	µCi/mL	GP	RADA-013
0	Curium-242	2.98E-11±1.18E-10	U			3.40E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	3.78E-11±2.74E-10	U			6.02E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	-6.65E-11±1.28E-10	U			4.02E-10	µCi/mL	GP	RADA-011
0	Europium-152	-8.09E-10±5.48E-09	U			9.62E-09	µCi/mL	GP	RADA-013
0	Europium-154	-4.16E-09±5.50E-09	U			8.98E-09	µCi/mL	GP	RADA-013
0	Europium-155	-3.69E-09±7.64E-09	U			1.26E-08	µCi/mL	GP	RADA-013
0	Gross alpha	2.35E-11±4.96E-10	JU	L	CI	1.21E-09	µCi/mL	GP	EPA900.0
0	Iodine-129	9.11E-11±7.12E-10	U			1.32E-09	µCi/mL	GP	RADA-006
0	Lead-212	1.42E-09±5.40E-09	U			7.08E-09	µCi/mL	GP	RADA-013
0	Lead-214	4.14E-09±7.92E-09	U			7.78E-09	µCi/mL	GP	RADA-013
0	Neptunium-237	2.49E-11±6.38E-11	U			1.46E-10	µCi/mL	GP	RADA-032
0	Nonvolatile beta	2.17E-09±1.13E-09	U			2.53E-09	µCi/mL	GP	EPA900.0
0	Plutonium-238	8.63E-12±6.54E-11	U			2.14E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	-8.46E-12±1.66E-11	U			1.86E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.08E-11±6.04E-11	U			9.24E-11	µCi/mL	GP	RADA-011
0	Plutonium-239/240	9.73E-11±1.21E-10	U			1.86E-10	µCi/mL	GP	RADA-011
0	Potassium-40	2.38E-08±2.46E-08	U			4.93E-08	µCi/mL	GP	RADA-013
0	Promethium-146		U			4.12E-09	µCi/mL	GP	RADA-013
0	Radium, total alpha-emitting	1.52E-11±1.75E-10	U			5.07E-10	µCi/mL	GP	RADA-010
0	Radium-226	-5.10E-11±3.31E-10	U			7.19E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.64E-10±5.65E-10	U	V		1.07E-09	µCi/mL	GP	RADA-009
0	Radium-228	1.08E-09±6.62E-10	U	V		1.23E-09	µCi/mL	GP	RADA-009
0	Strontium-90	6.82E-10±4.23E-10	U			8.38E-10	µCi/mL	GP	RADA-004
0	Technetium-99	6.88E-09±1.26E-08	U			2.14E-08	µCi/mL	GP	RADA-005
0	Thallium-208	1.64E-09±2.16E-09	U			4.02E-09	µCi/mL	GP	RADA-013
0	Thorium-228	9.07E-11±1.92E-10	U			4.13E-10	µCi/mL	GP	RADA-012
0	Thorium-228	-8.16E-12±3.98E-11	U			1.38E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.14E-10±1.14E-10	U			1.75E-10	µCi/mL	GP	RADA-012
0	Thorium-230	1.47E-10±1.05E-10	J	I	6	1.36E-10	µCi/mL	GP	RADA-012
0	Thorium-232	5.69E-11±8.07E-11	U			1.44E-10	µCi/mL	GP	RADA-012
0	Thorium-232	7.70E-12±3.41E-11	U			9.80E-11	µCi/mL	GP	RADA-012
0	Tritium	1.13E-08±1.45E-07	U			2.50E-07	µCi/mL	GP	RADA-002
0	Tritium	3.90E-08±1.69E-07	U			2.91E-07	µCi/mL	GP	RADA-002
0	Uranium-233/234	2.99E-11±4.63E-11	U			9.10E-11	µCi/mL	GP	RADA-011
0	Uranium-233/234	1.62E-10±1.30E-10	J	I	6	1.55E-10	µCi/mL	GP	RADA-011
0	Uranium-235	-4.73E-12±9.27E-12	U			7.61E-11	µCi/mL	GP	RADA-011
0	Uranium-235	1.89E-11±5.03E-11	U			1.32E-10	µCi/mL	GP	RADA-011
0	Uranium-238	8.38E-12±2.73E-11	U			7.58E-11	µCi/mL	GP	RADA-011
0	Uranium-238	6.86E-11±8.53E-11	U			1.32E-10	µCi/mL	GP	RADA-011

## WELL QA 116B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/26/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Aluminum, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Antimony, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Arsenic, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Barium, total recoverable	0.612	J	I	6	5.00	µg/L	GE	EPA6010B
0	Beryllium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cadmium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Calcium, total recoverable	61.9	J	I	6	100	µg/L	GE	EPA6010B
0	Chromium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cobalt, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Copper, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Cyanide	<5.00	U			5.00	µg/L	GE	EPA9012A
0	Iron, total recoverable	<50.0	U			50.0	µg/L	GE	EPA6010B
0	Lead, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Magnesium, total recoverable	5.28	J	I	6	20.0	µg/L	GE	EPA6010B
0	Manganese, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Mercury, total recoverable	<0.200	U			0.200	µg/L	GE	EPA7470A
0	Nickel, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Nitrate as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrate as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Nitrite as nitrogen	<50.0	U			50.0	µg/L	GE	EPA300.0
0	Potassium, total recoverable	<100	U			100	µg/L	GE	EPA6010B
0	Selenium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Silver, total recoverable	<0.203	JU		4	5.00	µg/L	GE	EPA6010B
0	Sodium, total recoverable	<100	U			100	µg/L	GE	EPA6010B
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Sulfate	<200	U			200	µg/L	GE	EPA300.0
0	Thallium, total recoverable	<10.0	U			10.0	µg/L	GE	EPA6010B
0	Total phosphates (as P)	<30.0	U	V		50.0	µg/L	GE	EPA9056
0	Total phosphates (as P)	<40.0	U	V		50.0	µg/L	GE	EPA9056
0	Vanadium, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Zinc, total recoverable	<5.00	U			5.00	µg/L	GE	EPA6010B
0	Actinium-228	1.18E-08±1.28E-08	U			2.60E-08	µCi/mL	GP	RADA-013
0	Americium-241	-3.76E-11±3.26E-10	U			7.39E-10	µCi/mL	GP	RADA-011
0	Americium-243	1.55E-10±1.43E-09	U			2.94E-10	µCi/mL	GP	RADA-011
0	Antimony-125	5.67E-09±9.48E-09	U			1.73E-08	µCi/mL	GP	RADA-013
0	Barium-133	-2.07E-09±4.54E-09	U			7.49E-09	µCi/mL	GP	RADA-013
0	Bismuth-214	9.66E-09±7.56E-09	U			1.51E-08	µCi/mL	GP	RADA-013
0	Carbon-14	-4.67E-09±1.33E-08	U			2.33E-08	µCi/mL	GP	RADA-003
0	Carbon-14	-8.30E-09±1.31E-08	U			2.32E-08	µCi/mL	GP	RADA-003
0	Cesium-134	-1.49E-10±3.32E-09	U			6.05E-09	µCi/mL	GP	RADA-013
0	Cesium-137	4.98E-10±3.51E-09	U			6.58E-09	µCi/mL	GP	RADA-013
0	Cobalt-60	-1.90E-09±3.78E-09	U			6.78E-09	µCi/mL	GP	RADA-013
0	Curium-242	-1.69E-12±1.59E-10	U			4.55E-10	µCi/mL	GP	RADA-011
0	Curium-243/244	-3.67E-11±2.98E-10	U			6.87E-10	µCi/mL	GP	RADA-011
0	Curium-245/246	1.65E-10±1.87E-10	U			3.20E-10	µCi/mL	GP	RADA-011
0	Europium-152	5.20E-09±9.94E-09	U			1.80E-08	µCi/mL	GP	RADA-013
0	Europium-154	6.58E-09±9.16E-09	U			1.97E-08	µCi/mL	GP	RADA-013
0	Europium-155	-3.92E-09±1.15E-08	U			2.00E-08	µCi/mL	GP	RADA-013
0	Gross alpha	-7.88E-10±2.24E-09	JU	L	CI	5.80E-09	µCi/mL	GP	EPA900.0
2	Iodine-129	1.73E-09±8.91E-10	R		4	1.08E-09	µCi/mL	GP	RADA-006
0	Iodine-129	-2.99E-10±7.89E-10	U			1.48E-09	µCi/mL	GP	RADA-006
0	Lead-212	5.92E-09±1.15E-08	U			1.30E-08	µCi/mL	GP	RADA-013
0	Lead-214	-5.96E-10±6.79E-09	U			1.17E-08	µCi/mL	GP	RADA-013
0	Neptunium-237	-6.33E-11±6.36E-11	U			2.31E-10	µCi/mL	GP	RADA-032
0	Neptunium-237	-3.92E-11±6.25E-11	U			1.99E-10	µCi/mL	GP	RADA-032
0	Nonvolatile beta	-3.95E-09±4.03E-09	U			1.01E-08	µCi/mL	GP	EPA900.0
0	Plutonium-238	-7.47E-13±8.98E-11	U			2.31E-10	µCi/mL	GP	RADA-011
0	Plutonium-238	-1.18E-11±1.49E-10	U			3.53E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	9.24E-12±4.10E-11	U			1.18E-10	µCi/mL	GP	RADA-011
0	Plutonium-239/240	3.89E-11±5.39E-11	U			5.84E-11	µCi/mL	GP	RADA-011
0	Potassium-40	7.66E-08±7.08E-08	J	I	6	5.72E-08	µCi/mL	GP	RADA-013
0	Promethium-146	2.26E-09±4.24E-09	U			7.75E-09	µCi/mL	GP	RADA-013
0	Radium, total alpha-emitting	3.60E-11±1.11E-10	U			2.95E-10	µCi/mL	GP	RADA-010



Well QA 116B collected on 06/26/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Radium, total alpha-emitting	-6.90E-11±2.40E-11	U			3.38E-10	µCi/mL	GP	RADA-010
0	Radium-226	6.99E-10±5.59E-10	U			8.22E-10	µCi/mL	GP	RADA-008
0	Radium-228	6.58E-10±4.22E-10	U	V		7.92E-10	µCi/mL	GP	RADA-009
0	Strontium-90	-7.02E-11±3.29E-10	U			7.54E-10	µCi/mL	GP	RADA-004
0	Technetium-99	-1.20E-08±9.16E-09	U			2.37E-08	µCi/mL	GP	RADA-005
0	Thallium-208	3.94E-09±7.10E-09	U			8.03E-09	µCi/mL	GP	RADA-013
0	Thorium-228	6.60E-11±1.37E-10	U			3.25E-10	µCi/mL	GP	RADA-012
0	Thorium-228	6.33E-11±1.32E-10	U			3.12E-10	µCi/mL	GP	RADA-012
0	Thorium-230	-4.91E-11±1.43E-10	U			4.05E-10	µCi/mL	GP	RADA-012
0	Thorium-230	2.63E-10±1.68E-10	R	4		1.78E-10	µCi/mL	GP	RADA-012
0	Thorium-232	6.83E-11±1.11E-10	U			2.29E-10	µCi/mL	GP	RADA-012
0	Thorium-232	-2.76E-11±3.13E-11	U			2.00E-10	µCi/mL	GP	RADA-012
0	Tritium	-4.73E-07±2.67E-07	U			5.00E-07	µCi/mL	GP	RADA-002
0	Uranium-233/234	6.69E-11±1.02E-10	U			2.04E-10	µCi/mL	GP	RADA-011
0	Uranium-233/234	5.65E-11±7.84E-11	U			8.48E-11	µCi/mL	GP	RADA-011
0	Uranium-235	5.18E-11±8.28E-11	U			1.55E-10	µCi/mL	GP	RADA-011
0	Uranium-235	-5.67E-12±6.31E-11	U			2.29E-10	µCi/mL	GP	RADA-011
0	Uranium-238	2.23E-11±5.92E-11	U			1.55E-10	µCi/mL	GP	RADA-011
0	Uranium-238	1.06E-10±1.12E-10	U			1.49E-10	µCi/mL	GP	RADA-011

## WELL TRP103B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B

## WELL TRP105B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/01/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL TRP108B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/11/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acrolein	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Acrylonitrile	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,3-Dichlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,4-Dichlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B



# SAMPLING BLANKS RESULTS

Well TRP108B collected on 04/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	I	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B

## WELL TRP110B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	1.42	J	I	8	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	2.19	J	I	8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

Well TRP110B collected on 04/18/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP111B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	2.31	J	I	8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

C-14

Second Quarter 2001



# WELL TRP112B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/23/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U			20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U			100	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U			50.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	1.83	J	I	8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

# WELL TRP113B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Acetonitrile (Methyl cyanide)	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrolein	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Acrylonitrile	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Allyl chloride	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroprene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromo-3-chloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dibromoethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dibromomethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,4-Dichlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,4-Dichloro-2-butene	<20.0	U		X	20.0	µg/L	WA	EPA8260B
0	Dichlorodifluoromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Isobutyl alcohol	<100	U		X	100	µg/L	WA	EPA8260B
0	Methacrylonitrile	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl methacrylate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Propionitrile	<50.0	U		X	50.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2,3-Trichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B



## WELL TRP118B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Acetonitrile (Methyl cyanide)	<25.0	U			25.0	µg/L	GE	EPA8260B
0	Acrolein	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Acrylonitrile	<10.0	U			10.0	µg/L	GE	EPA8260B
0	Allyl chloride	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroprene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromo-3-chloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,4-Dichlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,4-Dichloro-2-butene	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Dichlorodifluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Hexanone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Iodomethane (Methyl iodide)	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Isobutyl alcohol	<50.0	U			50.0	µg/L	GE	EPA8260B
0	Methacrylonitrile	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Methyl ethyl ketone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Methyl isobutyl ketone	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Methyl methacrylate	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Propionitrile	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Styrene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2,3-Trichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Vinyl acetate	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B

## WELL TRP121B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/04/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP122B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/06/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP124B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B



WELL TRP125B

Sample date: 05/23/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the

Time:

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## WELL TRP126B

Sample date: 06/04/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the

Time:

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B

Well TRP126B collected on 06/04/01 (cont.)

WELL TRP127B

Sample date: 05/23/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the

Time:

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## WELL TRP128B

Sample date: 06/06/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the

Time: \_\_\_\_\_

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available



Well TRP128B collected on 06/06/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<0.334	U	V		1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B

## WELL TRP133B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/29/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dibromoethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL TRP134B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP136B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B

## WELL TRP140B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/18/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available



Well TRP140B collected on 04/18/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP141B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

## WELL TRP142B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/19/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	OX	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	OX	1.00	µg/L	GE	EPA8260B

## WELL TRP144B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	0.283	J	IL	O8	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL TRP153B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/11/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	4.51	J	IL	O8	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	1.17	J	IL	O8	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B



# SAMPLING BLANKS RESULTS

Well TRP153B collected on 05/11/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

## WELL TRP156B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL TRP157B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/14/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

Well TRP157B collected on 05/14/01 (cont.)

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	0.501	J	IL	O8	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<0.811	JU	LV	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	0.392	J	IL	IO8	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B

## WELL TRP163B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U			10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	U			10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B



# SAMPLING BLANKS RESULTS

Well TRP163B collected on 06/07/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	U			5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	U			1.00	µg/L	ML	EPA8260B

## WELL TRP164B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/08/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP165B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/09/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well TRP165B collected on 05/09/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP166B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP167B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/10/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available







# SAMPLING BLANKS RESULTS

Well TRP170B collected on 05/15/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP171B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
1	Dichloromethane	4.86	J	I	X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP172B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well TRP172B collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
2	Dichloromethane	5.95			8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP173B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/23/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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## WELL TRP174B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP175B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well TRP175B collected on 05/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP176B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/31/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
2	Dichloromethane	6.69			X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP177B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Well TRP177B collected on 05/22/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL TRP178B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/29/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

ESH-EMS-20010585

**WELL TRP179B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/29/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL TRP180B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Second Quarter 2001



# SAMPLING BLANKS RESULTS

Well TRP180B collected on 06/04/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Toluene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		5.00		µg/L	WA	EPA8260B

## WELL TRP181B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Toluene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		5.00		µg/L	WA	EPA8260B

## WELL TRP182B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		5.00		µg/L	WA	EPA8260B

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Well TRP182B collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
2	Dichloromethane	6.44			8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Toluene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		5.00		µg/L	WA	EPA8260B

## WELL TRP183B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Benzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloroform	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	JU	L	O	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

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# SAMPLING BLANKS RESULTS

Well TRP183B collected on 06/06/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	JU	L	IO	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	JU	L	O	5.00	µg/L	WA	EPA8260B

## WELL TRP184B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/08/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<8.17	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	3.45	J	I	X8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP185B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/13/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

Well TRP185B collected on 06/13/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.99	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP186B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/14/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	1.23	J	I	X8	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B



# WELL TRP187B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<18.3	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	1.27	J	I	8	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

# WELL TRP188B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<18.8	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well TRP188B collected on 06/20/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	1.93	J	I	8	5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

# WELL TRP189B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/12/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

# WELL TRP190B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

# WELL TRP191B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/18/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B



**WELL TRP192B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/19/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL TRP193B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/13/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP199B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

ESH-EMS-20010585

Well TRP199B collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL TRP200B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

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Second Quarter 2001



**WELL TRP202B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL TRP203B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/16/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

ESH-EMS-20010585

Well TRP203B collected on 05/16/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

**WELL TRP205B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL TRP206B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP207B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/29/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available



# SAMPLING BLANKS RESULTS

Well TRP207B collected on 05/29/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP208B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/15/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Xylenes	<3.00	JU	L	O	3.00	µg/L	GE	EPA8260B

## WELL TRP209B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B

ESH-EMS-20010585

Well TRP209B collected on 05/17/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<1.60	U	V		5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B

## WELL TRP210B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/29/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .  
 Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	JU	L	O	5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	JU	L	IO	1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	JU	L	O	1.00	µg/L	GE	EPA8260B
0	Xylenes	<3.00	JU	L	O	3.00	µg/L	GE	EPA8260B

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**WELL TRP211B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/20/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromodichloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromoform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Bromomethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Carbon tetrachloride	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chlorobenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	U			1.00	µg/L	GE	EPA8260B
0	2-Chloroethyl vinyl ether	<5.00	U			5.00	µg/L	GE	EPA8260B
0	Chloroform	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Chloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dibromochloromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,2-Dichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Dichloromethane	<5.00	U			5.00	µg/L	GE	EPA8260B
0	1,2-Dichloropropane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Ethylbenzene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Tetrachloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Toluene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,1-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	1,1,2-Trichloroethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichloroethylene	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Trichlorofluoromethane	<1.00	U			1.00	µg/L	GE	EPA8260B
0	Xylenes	<3.00	U			3.00	µg/L	GE	EPA8260B

**WELL TRP214B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

**WELL TRP228A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/02/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

Well TRP228A collected on 04/02/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<12.1	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP229A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/03/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<11.9	U	V		5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B



## WELL TRP230B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/05/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP231B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/06/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP232B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/08/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP236B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/04/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

Well TRP236B collected on 05/04/01 (cont.)

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dichloromethane	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

## WELL TRP237B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/17/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP238B

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/21/01  
Water temperature: Not available  
Air temperature: Not available  
pH: Not available  
Sp. conductance: Not available  
Turbidity: Not available  
No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
Phenolphthalein alkalinity: Not available



Well TRP238B collected on 05/21/01 (cont.)

ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B

WELL TRP239B

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/24/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B

WELL TRP241B

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/22/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B

WELL TRP242B

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 05/25/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	JU	L	O	10.0	µg/L	ML	EPA8260B
0	Benzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromodichloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromoform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Bromomethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Carbon disulfide	0.740	J	IL	O8	5.00	µg/L	ML	EPA8260B

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Well TRP242B collected on 05/25/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Carbon tetrachloride	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chlorobenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroethene (Vinyl chloride)	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloroform	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Chloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Dibromochloromethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,2-Dichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,2-Dichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
2	Dichloromethane	5.42	J	IL	O8	10.0	µg/L	ML	EPA8260B
0	1,2-Dichloropropane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	cis-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	trans-1,3-Dichloropropene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Ethylbenzene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	2-Hexanone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl ethyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Methyl isobutyl ketone	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Styrene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2,2-Tetrachloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Tetrachloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Toluene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,1-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	1,1,2-Trichloroethane	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Trichloroethylene	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B
0	Vinyl acetate	<5.00	JU	L	O	5.00	µg/L	ML	EPA8260B
0	Xylenes	<1.00	JU	L	O	1.00	µg/L	ML	EPA8260B

WELL TRP244B

MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Benzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Dichloromethane	<12.4	U	V	8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		10.0		µg/L	WA	EPA8260B
0	Styrene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Toluene	2.54	J	I	8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		5.00		µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		5.00		µg/L	WA	EPA8260B

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# SAMPLING BLANKS RESULTS

Well TRP244B collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Vinyl acetate	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

## WELL TRP245B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/25/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U	V	X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP246B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/27/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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Well TRP246B collected on 06/27/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

## WELL TRP247B

### MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/28/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO3): Not available  
 Phenolphthalein alkalinity: Not available

### ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Acetone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Benzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Carbon disulfide	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	trans-1,3-Dichloropropene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	2-Hexanone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl ethyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Methyl isobutyl ketone	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Styrene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U		X	5.00	µg/L	WA	EPA8260B
0	Vinyl acetate	<10.0	U		X	10.0	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U		X	5.00	µg/L	WA	EPA8260B

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**WELL TRP251B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/04/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP252B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/07/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP281B**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 06/21/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Benzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromodichloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromoform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Bromomethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Carbon tetrachloride	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chlorobenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloroethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	2-Chloroethyl vinyl ether	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Chloroform	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Chloromethane	<10.0	U			10.0	µg/L	WA	EPA8260B
0	Dibromochloromethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,2-Dichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	trans-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Dichloromethane	<15.4	U	V	8	5.00	µg/L	WA	EPA8260B
0	1,2-Dichloropropane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	cis-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B

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Well TRP281B collected on 06/21/01 (cont.)

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	trans-1,3-Dichloropropene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Ethylbenzene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2,2-Tetrachloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Toluene	<5.00	U		8	5.00	µg/L	WA	EPA8260B
0	1,1,1-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	1,1,2-Trichloroethane	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichlorofluoromethane	<1.96	U	V		5.00	µg/L	WA	EPA8260B
0	Xylenes	<5.00	U			5.00	µg/L	WA	EPA8260B

**WELL TRP308A**

## MEASUREMENTS CONDUCTED IN THE FIELD

Sample date: 04/02/01  
 Water temperature: Not available  
 Air temperature: Not available  
 pH: Not available  
 Sp. conductance: Not available  
 Turbidity: Not available  
 No water was evacuated from the well prior to sampling.

Time: .

Total alkalinity (as CaCO<sub>3</sub>): Not available  
 Phenolphthalein alkalinity: Not available

## ANALYSES

F	Analyte	Result	FG	S	EMS	SQL	Unit	Lab	Method
0	Chloroethene (Vinyl chloride)	<10.0	U			10.0	µg/L	WA	EPA8260B
0	cis-1,2-Dichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Tetrachloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B
0	Trichloroethylene	<5.00	U			5.00	µg/L	WA	EPA8260B

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