E.O. Lawrence Berkeley National Laboratory
University of California
Environmental Restoration Program

United States Department of Energy

ENVIRONMENTAL RESTORATION PROGRAM

QUARTERLY PROGRESS REPORT AND ANNUAL STATUS SUMMARY

FOURTH QUARTER FISCAL YEAR 2004
(July 1 to September 30, 2004)

for the
Lawrence Berkeley National Laboratory
Hazardous Waste Facility Permit

February 2005

QUARTERLY PROGRESS REPORT
AND ANNUAL STATUS SUMMARY

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for the Lawrence Berkeley National Laboratory
Hazardous Waste Facility Permit

A Joint Effort of
Environment, Health and Safety Division and
Earth Sciences Division
Lawrence Berkeley National Laboratory
Berkeley, CA 94720

February 2005

Owner: United States Department of Energy
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Oakland, California 94612-5208

Operator: University of California Lawrence Berkeley National Laboratory
and United States Department of Energy
1 Cyclotron Road
Berkeley, CA 94720

This work was done at the Lawrence Berkeley National Laboratory, which is operated by the University of California for the U. S. Department of Energy under contract DE-AC03-76SF00098.

ENVIRONMENTAL RESTORATION PROGRAM

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Hazardous Waste Facility Permit

February 2005

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LIST OF ABBREVIATIONS

AOC	Area of Concern
BAAQMD	Bay Area Air Quality Management District
BC	BC Laboratories
bgs	below ground surface
Cal-EPA	California Environmental Protection Agency
CAM	California Assessment Manual
CAP	Corrective Action Program
CCR	California Code of Regulations
CMS	Corrective Measures Study
DCA	Dichloroethane
DCE	Dichloroethene
DHS	California Department of Health Services
DOE	U.S. Department of Energy
DTSC	Cal-EPA Department of Toxic Substances Control
DWR	California Department of Water Resources
EBMUD	East Bay Municipal Utility District
EH&S	Environment, Health and Safety Division
EML	LBNL Environmental Measurement Laboratory
ERP	Environmental Restoration Program
FY	Fiscal Year (October 1 to September 30)
GAC	Granular Activated Carbon
HRC	Hydrogen Release Compounds
HWHF	Hazardous Waste Handling Facility
ICMs	Interim Corrective Measures
ISCO	In Situ Chemical Oxidation
LBNL	Lawrence Berkeley National Laboratory
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
m/s	meters per second
MTBE	Methyl-Tert Butyl Ether
µg/L	micrograms per liter (10^{-6} grams per liter)
NA	Not Analyzed
ND	Not Detected
NFA	No Further Action

NTLF	National Tritium Labeling Facility
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene (Perchloroethene)
pCi/L	picocuries per liter (10^{-12} curies per liter)
QA	Quality Assurance
QAPP	Quality Assurance Program Plan
QC	Quality Control
RAML	LBNL Radiation Analytical Measurement Laboratory
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RPD	Relative Percent Difference
RWQCB	Regional Water Quality Control Board
SOP	Standard Operating Procedure
SVE	Soil Vapor Extraction
SVOCs	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TCA	Trichloroethane
TCE	Trichloroethene
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons-Diesel
TPH-G	Total Petroleum Hydrocarbons-Gasoline
TPH-H/MO	Total Petroleum Hydrocarbons-Hydraulic/Motor Oil
TPH-K	Total Petroleum Hydrocarbons – Kerosene
TOC	Total Organic Carbon
UC	University of California
USEPA	U. S. Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

The Lawrence Berkeley National Laboratory (LBNL) Hazardous Waste Handling Facility operates under a Resource Conservation and Recovery Act (RCRA), Part B Hazardous Waste Facility Permit. The Permit requires LBNL to investigate and address all releases of hazardous waste at the facility and to issue quarterly progress reports that cover the following subjects:

- A description of work completed
- Summaries of all findings
- Summaries of all problems encountered and actions taken to rectify problems
- Projected work for the next reporting period.

This Quarterly Progress Report covers LBNL Environmental Restoration Program (ERP) activities conducted as part of the RCRA Corrective Actions Program, during the fourth quarter of fiscal year 2004 (FY04) (July 1 through September 30, 2004).

GROUNDWATER MONITORING

Fourth quarter FY04 groundwater sampling started on July 6, 2004 and was completed on September 24, 2004. The number of groundwater samples submitted for each type of analysis during each quarter is shown in the following tables:

Number of Groundwater Samples Collected During the Fourth Quarter of FY 2004

	VOCs	TPH				PCBs	Metals	Tritium	Total
		-D	-G	-FF	-K				
Monitoring Wells	174	16	3	7	3	9	52	70	334
Duplicates	3						2	4	9
Trip Blanks	7								7
Rinse Blanks	14	1		1			3	5	24
Slope Stability Wells	3								3
Temporary Groundwater Sampling Points	146	3	3	2		4	7	24	189

VOCs: Volatile Organic Compounds
TPH-D: Total Petroleum Hydrocarbons in the diesel range
TPH-G: Total Petroleum Hydrocarbons in the gasoline range
TPH-K: Total Petroleum Hydrocarbons in the kerosene range

TPH-FF: Total Petroleum hydrocarbons fuel Fingerprint
PCBs=Polychlorinated Biphenyls

Groundwater monitoring data collected during the fourth quarter of FY04 (current reporting period) were consistent with previous results. No volatile organic compounds (VOCs) were detected in the perimeter or offsite wells, except for 1.2 µg/L of trichloroethene (TCE) in groundwater monitoring well MWP-7. Concentrations of VOCs in MWP-7 have been below Maximum Contaminant Levels (MCLs) for drinking water since May 2000, with TCE generally the only VOC detected. The groundwater plumes and other areas of groundwater contamination where halogenated VOCs were detected at concentrations above MCLs during the current reporting period are listed in the following table, together with the maximum concentration detected.

Maximum Concentrations (µg/L) of Halogenated VOCs Detected Above MCLs During the Fourth Quarter of FY04

	1-1 DCA	1-2, DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	meth chloride	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	vinyl chloride	carbon tet
MCL	**5**	**0.5**	**6**	**6**	**10**	**5**	**5**	**1**	**5**	**5**	**0.5**	**0.5**
Building 71 Solvent Plume Building 71B Lobe												
				139					2,930	257	5.3	
Building 51/64 Solvent Plume												
	7,550	63	1,680	455	42	8.4	12	4.8	510	759	249	16
Building 51L Solvent Plume												
	126		36	1,360	645				28	541	1,350	
Old Town Solvent Plume Building 7 Lobe												
	28		110	156					46,600	34,600	2.8	2,400
Old Town Solvent Plume Building 25A Lobe												
			79						8.5	241		1.4
Old Town Solvent Plume Building 52 Lobe												
	8.6		22	79					199	164	1.9	5.8
Building 69A Area												
				9.0							34	
Building 75A Area												
				84						16		
Building 76 Solvent Plume												
				6.7						17		
Building 77 Area												
				6.1								
Other Locations (SB51A-01-8B)												
				22							215	

DCA: dichloroethane
DCE: dichloroethene
TCA: trichloroethane
PCE: tetrachloroethene
TCE: trichloroethene
PCA: tetrachloroethene

The only aromatic hydrocarbon detected at a concentration above the MCL during the reporting period was benzene (55 µg/L maximum) in MW7-00-4, MW91-4, and MW75A-00-7. The benzene detected in these three deep Orinda Formation wells may be naturally occurring.

Several former underground storage tank (UST) sites and other locations where petroleum hydrocarbons had previously been detected in the groundwater were sampled for total petroleum hydrocarbons (TPH) during the current reporting period. TPH in the diesel (TPH-D), gasoline (TPH-G), kerosene (TPH-K) and crude/waste oil ranges were detected at maximum concentrations of 1,400 µg/L, 99 µg/L, 240 µg/L, and 510 µg/L, respectively. Except for monitoring well MW88-93-13, where TPH-D (410 µg/L) was detected for the first time, concentrations of TPH detected during the current reporting period are consistent with previous results. MW88-93-13 monitors groundwater near the Building 88 Abandoned Diesel UST.

Tritium was not detected in the offsite or perimeter wells, and was below the MCL (MCL = 20,000 pCi/L) in all wells except for MW75-97-5, where it was detected at a concentration of 21,211 pCi/L. MW75-97-5 has been the only monitoring well in which tritium has been detected above the MCL. Tritium concentrations have shown a decreasing trend in a number of wells including MW75-97-5.

Annual site-wide sampling of groundwater monitoring wells for metals was conducted during the current reporting period. Detected metals concentrations were consistent with previous results. Excluding results from MW71B-98-13, where a Hydrogen Release Compound (HRC®) pilot test was being conducted, the only metals detected at concentrations above the MCL were arsenic in seven wells and selenium in two wells. The elevated levels of arsenic and/or selenium detected may be naturally occurring.

During the reporting period, groundwater samples were collected from 15 wells in four areas where PCBs had previously been detected in the soil. No PCBs were detected (<0.2 µg/L).

SURFACE WATER SAMPLING

In September 2004, surface water samples were collected from the four LBNL creeks that were flowing and analyzed for VOCs, metals, and tritium. No VOCs or tritium (<300 pCi/L) was detected. Concentrations of metals detected were consistent with previous results.

MEETINGS

Remedial Project Managers meeting were held on July 8, August 19, and September 9, 2004. Representatives of the Department of Toxic Substances Control (DTSC), Regional Water Quality Control Board (RWQCB), City of Berkeley, Department of Energy (DOE), and LBNL attended all meetings.

INTERIM CORRECTIVE MEASURES

Ongoing Systems

Extraction and treatment of groundwater continued during the current reporting period at the following locations:

- Old Town Solvent Plume
  - Building 7 Groundwater Collection Trench (Building 7 lobe source area).
  - Building 58 West Groundwater Collection Trench (Building 7 lobe downgradient area).
  - Building 58 Southeast Groundwater Collection Trench (Building 7 lobe core area).
  - Building 46 Subdrain (Building 52 lobe downgradient).
- Building 51/64 solvent plume source area excavation.
- Building 71 solvent plume (hydrauger effluent).
- Building 51L solvent plume source area (EW51L-99-1 and EW51L-00-1).
- Sump upgradient from Building 51A Catch Basin (Building 51A Drains).
- Building 51 Motor Generator Room discharge sump (Building 51 Subdrain System).

Dual-phase (groundwater and soil gas) extraction and treatment continued during the current reporting period at the following locations:

- Building 53/58 Slope Dual Phase System (Old Town Plume Building 7 Lobe core area)
- Building 6 Dual Phase System (diesel plume north of Building 6).

Completed Interim Corrective Measures

The Interim Corrective Measure (ICM) for the Building 88 Hydraulic Gate Unit (Area of Concern 6-3) was completed at the beginning of the current reporting period. PCB-contaminated

soil exceeding the 1 mg/kg, the Toxic Substances Control Act (TSCA) self-implementing cleanup level for soil in high occupancy areas, was removed and the site was backfilled with low-strength concrete.

PILOT TESTS

Ongoing Pilot Tests

The following pilot tests continued during the current reporting period:

- Building 7 lobe Old Town plume core area soil flushing pilot test.
- Building 52 lobe Old Town plume soil flushing pilot test.
- Building 25A lobe Old Town plume source area soil flushing pilot test.
- Thermally enhanced soil vapor extraction (SVE) pilot test Building 7 lobe source area.
- Building 51/64 plume source area soil flushing pilot test.
- Building 51A/51L soil flushing pilot test.
- Building 71B lobe core area in situ chemical oxidation pilot test.
- Building 71B lobe source area HRC pilot test.
- Building 75/75A area of groundwater contamination HRC pilot test.

The pilot tests have generally resulted in decreases in the concentrations of VOCs detected in groundwater. Significant decreases include:

- Concentrations of VOCs detected in groundwater samples collected from two of the thermally enhanced SVE dual phase extraction wells have decreased to approximately 2,000 µg/L from initial concentrations greater than 10,000 µg/L.

- Soil flushing in the Building 52 lobe source area has resulted in decreasing concentrations of VOCs detected in downgradient monitoring wells.

- Concentrations of total VOCs detected in three wells in the Building 25A source area were originally in the range of approximately 200 to 400 µg/L, and have declined from to 50 µg/L or less as a result of soil flushing.

- The maximum concentration of VOCs detected in groundwater in the source area of the Building 51/64 plume was originally more than 30,000 µg/L and has declined to less than 5,000 µg/L as a result of soil flushing.

- The concentration of total VOCs detected in the Building 71B core area has decreased from approximately 300 µg/L prior to the HRC pilot test to approximately 10 µg/L or less during the reporting period.

New Pilot Tests and Interim Corrective Measures

A soil flushing pilot test was implemented during the reporting period to address the soil contamination in source area of the Building 71B lobe of the Building 71 Groundwater Plume. The extracted groundwater is treated at a granular activated carbon (GAC) system installed south of Building 71B during the current reporting period.

SECTION 1

INTRODUCTION

1.1 PURPOSE AND SCOPE

The Lawrence Berkeley National Laboratory (LBNL) Hazardous Waste Handling Facility (HWHF) operates under a Resource Conservation and Recovery Act (RCRA), Part B Hazardous Waste Facility Permit issued by the California Environmental Protection Agency (CAL-EPA) Department of Toxic Substances Control (DTSC). The Permit was issued on May 4, 1993, and requires LBNL to investigate and address all releases of hazardous waste that may have occurred at the facility and issue quarterly progress reports. This Quarterly Progress Report documents RCRA Corrective Action Program (CAP) activities conducted by the LBNL Environmental Restoration Program (ERP) during the fourth quarter of fiscal year 2004 (FY04), which covers the period from July 1 through September 30, 2004. In accordance with permit requirements, the progress reports cover the following subjects:

a. A description of work completed (Executive Summary).
b. Summaries of all findings, including summaries of laboratory data (Section 4).
c. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems (Section 5).
d. Projected work for the next reporting period (Section 7).

Historical trends in contaminant concentrations in groundwater are also discussed. In addition, the report for the fourth quarter of each fiscal year (i.e., the current report) provides tables of the historical groundwater data for volatile organic compounds (VOCs) and four quarters of groundwater data for other analytes.

1.2 DOCUMENTATION OF INVESTIGATION RESULTS

Results of environmental investigations that have been conducted at LBNL are documented in the following reports:

- Quarterly summaries of RCRA CAP activities conducted since January 1993 have been presented in the LBNL ERP Quarterly Progress Reports (LBNL, 1993-2004).
- Results of the initial environmental investigations at LBNL are described in the RCRA Facility Assessment (RFA) (LBNL, 1992a) and the RCRA Facility Investigation (RFI) Work Plan (LBNL, 1992b).
- Results of environmental investigations conducted from October 1992 through June 1994 are documented in the Draft Final RCRA Facility Investigation Phase I Progress Report (LBNL, 1994a).
- Results of environmental investigations conducted from July 1, 1994 to June 30, 1995 are documented in the Draft Final RCRA Facility Investigation Phase II Progress Report (LBNL, 1995a).
- Results of environmental investigations conducted from June 30, 1995 through September 22, 2000 are documented in the Draft Final RCRA Facility Investigation Report (LBNL, 2000).

1.3 PROJECT ORGANIZATION

LBNL's various divisions manage and operate the laboratory facilities on site. The United States Department of Energy (DOE) provides funding and oversight of these operations. Investigations of areas that contain potential environmental contamination are conducted at LBNL under the ERP, which is part of a nationwide effort by the DOE to identify and clean up contaminated areas at its facilities. The LBNL ERP is part of the Environmental Services Group of the LBNL Environment, Health and Safety (EH&S) Division.

SECTION 2

SITE DESCRIPTION

2.1 LOCATION

LBNL is located in the Berkeley/Oakland Hills in Alameda County, California (Figure 1). The western three-quarters of LBNL are in the city of Berkeley and the eastern quarter is in the City of Oakland.

2.2 SITE HISTORY AND OPERATIONS

LBNL is a research facility managed by the University of California (UC) for the DOE. From an initial emphasis on nuclear physics research in the 1940s, LBNL has diversified to include materials sciences, chemistry, earth sciences, biosciences, and energy conservation research. Many types of chemicals have been used at LBNL or have been produced as wastes, including gasoline, diesel, waste oils, polychlorinated biphenyls (PCBs), Freon, solvents, metals, tritium and other radionuclides, acids, etchants, and lead- and chromate-based paints.

The primary chemical contaminants detected in soil and groundwater at LBNL have been halogenated VOCs, principally tetrachloroethene (PCE), trichloroethene (TCE), carbon tetrachloride, 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), and 1,1-dichloroethane (1,1-DCA). Other contaminants detected in soil and/or groundwater include petroleum hydrocarbons, PCBs, metals, and tritium.

2.3 PHYSICAL DESCRIPTION OF THE SITE

A brief summary of the physiography, geology, and hydrogeology of the LBNL site is given below. More detailed descriptions are provided in the Draft Final RCRA Facility Investigation Report (LBNL, 2000).

2.3.1 Physiography

The physiography of LBNL is dominated by a steep south- to southwest-facing slope (Figure 2) that has been modified by erosion of several steep stream canyons, by mobilization of landslides, and by extensive cut and fill operations associated with construction of LBNL facilities. Two westward flowing creeks drain the LBNL site (Figure 3): Strawberry Creek and its tributaries along the southern boundary of the site and North Fork Strawberry Creek, which drains the western portion of the site.

2.3.2 Geology and Hydrogeology

As shown on the bedrock geologic map (Figure 4a) and summary stratigraphic column (Figure 4b), LBNL is underlain primarily by northeast-dipping Cretaceous and Miocene sedimentary and volcanic bedrock units, and paleolandslide (ancient landslide) deposits composed of these units. Surficial units at LBNL consist primarily of artificial fill, colluvium, alluvium, and recent landslide deposits, as shown on the surficial geologic map (Figure 4c).

Groundwater flow and contaminant migration are controlled in large part by the geometry and physical characteristics of the surficial and bedrock units. Typical values of hydraulic conductivity for the geologic units mapped at the site are shown in the table below:

Typical Hydraulic Conductivity Ranges for Geologic Units at LBNL

Geologic Unit	Hydraulic Conductivity
Artificial Fill	10^{-6} to 10^{-8} m/s
Colluvium and alluvium	10^{-6} to 10^{-10} m/s
Moraga Formation (includes paleolandslide deposits)	10^{-4} to 10^{-6} m/s
Mixed Unit	10^{-5} to 10^{-9} m/s
Orinda Formation	10^{-5} to 10^{-13} m/s
San Pablo Group	10^{-6} to 10^{-8} m/s
Great Valley Group	10^{-5} to 10^{-8} m/s

m/s: meters per second

Groundwater elevation maps at LBNL show that the piezometric surface approximately mirrors surface topography. Groundwater flow directions generally follow the piezometric gradient, indicating that groundwater flow in the western portion of LBNL is generally westward, whereas flow in other parts of LBNL is generally southward.

2.4 SITE STUDY AREAS

For reporting purposes, the RCRA Facility Assessment (RFA) (LBNL, 1992a) subdivided LBNL into 15 Areas. Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified in the RFA were given designations based on their locations in one of the 15 Areas. Subsequently, during the RCRA Facility Investigation (RFI), the 15 Areas were regrouped into the following four areas, based on the locations of groundwater plumes, the direction of groundwater flow, and potential contaminant migration pathways. The locations of the four areas are shown on Figure 5.

- Bevalac Area (RFA Areas 1, 9 and 15).
- Old Town Area (RFA Areas 2, 7, 10, and 14).
- Support Services Area (RFA Areas 3, 4, and 5).
- Outlying Areas (RFA Areas 6, 8, 11, 12, and 13).

Figures and tables presented in this report are organized based on the four study areas listed above.

SECTION 3

TECHNICAL PROCEDURE DOCUMENTATION

3.1 PROGRAM PLANS AND GUIDANCE DOCUMENTS

RCRA CAP activities are conducted at LBNL in accordance with the following ERP written procedures and regulatory guidance documents:

LBNL ERP Procedures

- Vadose Zone Monitoring Plan (LBNL, 1991).
- Groundwater Sampling and Analysis Plan (LBNL, 1992c).
- Specifications for Site Restoration Program Environmental Monitoring Wells and Piezometers, Supplement B of the Well Management Work Plan (LBNL, 1992d).
- Health and Safety Program Plan (LBNL, 2004a).
- Quality Assurance Program Plan (QAPP) (LBNL, 1994b).
- Standard Operating Procedures (SOPs) (LBNL, 1994c).

Regulatory Guidance Documents

- California Department of Water Resources Well Standards (DWR, 1991).
- California Environmental Protection Agency Guidelines for Hydrogeologic Characterization of Hazardous Substance Release Sites and Guidance Manuals for Groundwater Investigations (CAL EPA, 1994a, 1994b).
- United States Environmental Protection Agency (USEPA) Guidance Documents for implementing RCRA Corrective Action Programs, RCRA Facility Investigations, and RCRA Interim Corrective Measures (USEPA, 1994, 1989, 1988).

LBNL is currently in the RCRA Corrective Measures Study (CMS) phase of the CAP. The RCRA Corrective Measures Study Plan was submitted to the DTSC in August 2001 (LBNL

2001a). The CMS Plan established the requirements and procedures to be used for completing the CMS.

3.2 LABORATORY PROCEDURES

All laboratories utilized by the LBNL ERP are certified by the California Department of Health Services (DHS) under the California Environmental Laboratory Accreditation Program. Laboratory quality control procedures include the analysis of method blanks and spike samples in accordance with protocols established for specific United States Environmental Protection Agency (USEPA) analytical methods, and are specified in the LBNL QAPP (LBNL, 1994b).

3.3 GROUNDWATER MONITORING SCHEDULE

Implementation of the groundwater monitoring program at LBNL is currently based on the monitoring schedule (LBNL, 2001b) that was approved by the San Francisco Bay Regional Water Quality Control Board (RWQCB) in 2002 (RWQCB, 2002). Duplicate groundwater samples are initially collected from all new monitoring wells and analyzed for VOCs, California Code of Regulations (CCR) California Assessment Manual (CAM) Title 22 metals, and other potential contaminants. Ongoing sampling and analysis is conducted in accordance with the following approved protocol:

<u>Sampling Frequency for VOCs</u>

Quarterly:

- Perimeter and offsite wells.
- Wells located downgradient from VOC plumes.
- Wells monitoring remediation system effectiveness.

Semiannually or Annually:

- Wells located within the interiors of VOC plumes.
- Wells that duplicate the function of adjacent wells.

Annually:

- Wells outside plume areas where contaminants have either not been detected or detected only sporadically.

Sampling Frequency for Metals

Annually:

- Wells where metals concentrations have exceeded 50% of Maximum Contaminant Levels (MCLs) (sampled for those specific metals only).
- Wells where metals for which no MCL is available were detected at relatively high values (e.g., molybdenum > 100 micrograms per liter [μg/L]) (sampled for those specific metals only).
- Wells where metals contamination has been detected in soil near the well.

Sampling Frequency for Tritium

Quarterly:

- Perimeter and offsite wells.
- Wells located in the immediate area of the tritium plume with less than four years of tritium monitoring.

Semiannually:

- Wells located in the immediate area of the tritium plume with more than four years of tritium monitoring.

Annual Sampling:

- The closest wells to the west and southwest of the former National Tritium Labelling Facility (NTLF) hillside stack in the direction of Blackberry Canyon or the City of Berkeley.

3.4 LBNL WORKPLANS

Environmental investigations were conducted during the RFI phase of the CAP based on requirements specified in the RFI workplans (LBNL, 1992b, 1994d, and 1995b) and RFI workplan addenda submitted to the regulatory agencies. In addition, LBNL has prepared numerous Interim Corrective Measures (ICM) and pilot test workplans, which were also submitted to the regulatory agencies. A list of these workplans and addenda completed through January 2000 is contained in the Draft Final RFI Report (LBNL, 2000). A list of workplans completed between February 2000 and September 2003 is provided in the Quarterly Progress Report and Annual Status Summary Fourth Quarter Fiscal Year 2003 (LBNL, 2003a). Workplans submitted to the regulatory agencies during the current annual summary period are listed in the following table.

Workplans Submitted During Current Annual Summary Period

Workplan	Date Submitted	Reference
Interim Corrective Measures Workplan for Additional Soil Excavation in the Source Area of the Building 71 Solvent Plume	November 14, 2003	LBNL, 2003b
Workplan for Investigation of the Slope East of Building 64	December 11, 2003	LBNL, 2003c
Workplan for Pilot Testing Hydrogen Release Compounds (HRC) in the Building 75/75A Area	January 5, 2004	LBNL, 2004b
Interim Corrective Measures Workplan for Additional Excavation of PCB-Contaminated Soil at the Building 88 Hydraulic Gate Unit (AOC 6-3)	May 10, 2004	LBNL, 2004c
Interim Corrective Measures Workplan Addendum for Additional Soil Excavation in the Source Area of the Building 71 Solvent Plume	June 9, 2004	LBNL, 2004d

SECTION 4

ENVIRONMENTAL ACTIVITIES CONDUCTED DURING REPORTING PERIOD

4.1 ANALYTICAL METHODS

Soil and water samples collected during the current reporting period were analyzed by the LBNL Environmental Measurement Laboratory (EML), the LBNL Radiation Analytical Measurement Laboratory (RAML), Eberline, BC Laboratories (BC), or Sequoia Laboratories as indicated in the following table:

Analytical Methods and Laboratories for the Current Reporting Period

	ANALYTICAL LABORATORY	
Analytical Method	**Groundwater**	**Soil**
VOCs (EPA 8260)	EML/BC	BC
Title 22 metals (EPA 6000 & 7000 series), Chromium^{+6}	BC	
Fuel Identification, TPH-D, TPH-G, and TPH-K (EPA Mod. 8015)	BC	
PCBs (EPA 8082)	BC	BC
Minerals	BC/Sequoia	
Tritium (EPA 906)	RAML/Eberline	

Notes: VOCs: Volatile organic compounds
TPH-G: Total petroleum hydrocarbons in the gasoline range
TPH-K: Total petroleum hydrocarbons in the kerosene range
TPH-D: Total petroleum hydrocarbons in the diesel range
PCBs: Polychlorinated biphenyls

The complete list of United States Environmental Protection Agency (USEPA) Method 8260 analytes and quantitation limits (assuming no sample dilution) for each laboratory is shown in Table 1. Quantitation limits for other analyses are included in the tables of results.

4.2 GROUNDWATER MONITORING RESULTS

Quarterly sampling of groundwater monitoring wells started on July 6, 2004 and was completed on September 24, 2004. Groundwater analytical data are collected primarily from groundwater monitoring wells at LBNL. Groundwater samples are also periodically collected from temporary groundwater sampling points, slope stability wells, groundwater extraction wells, and hydraugers. Locations of slope stability wells are shown on Figure 6. Locations of groundwater monitoring wells, temporary groundwater sampling points, extraction wells, and hydraugers are shown on Figures 7 and 8a through 8i. Slope stability wells and hydraugers were not installed for groundwater monitoring purposes, and therefore the results from these installations are not considered valid for quantitative determination of groundwater concentrations.

The locations and analytical methods for groundwater sampling conducted during the current reporting period are presented in Table 2. The sampling results are discussed in the following sections. Water level data are presented in Table 3. Table 4 provides groundwater monitoring well construction details. The table numbers corresponding to the tables containing the groundwater analytical results for the different types of sampling locations are noted below:

Table Numbers for Groundwater Analytical Results

Chemicals	Area	Groundwater Monitoring Wells	Temporary Groundwater Sampling Points	Groundwater Extraction Wells	Other Locations	Hydraugers
Volatile Organic Compounds (VOCs)	Bevalac Old Town Support Services Outlying	5-1 6-1 7-1 8	5-2 6-2 7-2	5-3 6-3	5-4 6-4	9
Petroleum Hydrocarbons	Sitewide	11	11			
Tritium	Sitewide	12	12		12	
Metals	Sitewide	13	13			
PCBs	Sitewide	14	14			

Tables listing VOC concentrations are subdivided into halogenated non-aromatic compounds, which were primarily derived from solvents, and nonhalogenated or aromatic compounds, which were primarily derived from petroleum products. The locations where MCLs

were exceeded during the current reporting period and the specific VOCs that exceeded MCLs are listed in Table 10.

Ten groundwater contamination plumes were identified at LBNL. The locations of eight of the plumes are shown on Figure 9. The locations of the remaining two plumes (the Building 37 VOC plume and the Building 71 Freon plume) are not included on the figure since contaminant concentrations in groundwater have declined to levels below MCLs. The Old Town VOC plume and the Building 71 VOC plume have been subdivided into multiple lobes to reflect the commingling of contaminated groundwater derived from different sources. In addition to the plumes, six localized areas of VOC-contaminated groundwater have been identified in the Support Services Area and a localized area of tritium-contaminated groundwater has been identified near Building 71. The following table lists the figure number, if any, on which contaminant concentrations, groundwater levels, or concentration trends are shown for each identified area of groundwater contamination.

Groundwater Plumes and Other Localized Areas of Groundwater Contamination – Figure Index

Plume or Area of Groundwater Contamination	Figure Number		
	Concentration Map	Water Level Elevation Map	Concentration Trends
Halogenated Non-Aromatic VOCs			
Bevalac Area		11	
Building 71 Solvent Plume (AOC 1-9)			
Building 71 Lobe	10		12a
Building 71B Lobe	10		12b
Building 71 Freon Plume (AOC 1-9)			13
Building 51/64 Solvent Plume (AOC 9-13)	10, 14		15a, 15b
Building 51L Solvent Plume	10, 16		17
Old Town Area		20	
Old Town Solvent Plume (AOCs 2-4 and 10-5)			
Building 7 Lobe	18, 19		21a through 21e
Building 52 Lobe	18		22
Building 25A Lobe	18		23
Building 37 Solvent Plume (AOC 14-5)	18		24
Support Services Area		26	
Building 69A, 75, 75A, 75B, and 77 Areas	25		28a and 28b
Building 76 Solvent Plume (AOC 4-5)	25		27
Petroleum Hydrocarbons			
Building 7 Diesel Plume		20	30
Building 74 Diesel Plume			31

Tritium			
Building 75 Tritium Plume (SWMU 3-7)	32, 33	26	34, 35a, 35b
Building 71 Area	32		36

The areas of VOC-contaminated groundwater are discussed in Sections 4.2.1.1 through 4.2.1.3, for the Bevalac, Old Town, and Support Services Areas, respectively. Section 4.2.1.4 and 4.2.1.5 describe the results of groundwater monitoring for the Outlying Areas and perimeter monitoring wells, respectively. Concentrations of VOCs detected the in the Outlying Areas and perimeter monitoring wells during the current reporting period are shown on Figure 29. Results for other analytes are provided in Section 4.2.2 (petroleum hydrocarbons), Section 4.2.3 (tritium), 4.2.4 (metals), and 4.2.5 (PCBs).

4.2.1 Status of Groundwater Monitoring - Halogenated Non-Aromatic VOCs

The status and long-term concentration trends of each of the groundwater VOC plumes and other localized areas of VOC-contaminated groundwater are discussed below. VOCs detected at concentrations above MCLs during the current reporting period are listed in Table 10. The maximum concentrations of halogenated VOCs detected at concentrations above MCLs during the current reporting period in each area of groundwater contamination are listed in the following table:

Maximum Concentrations (µg/L) of Halogenated VOCs Detected Above MCLs During the Fourth Quarter of FY04

	1-1 DCA	1-2, DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	meth chloride	1,1,2 TCA	1,1,2,2-PCA	PCE	TCE	vinyl chloride	carbon tet
MCL	**5**	**0.5**	**6**	**6**	**10**	**5**	**5**	**1**	**5**	**5**	**0.5**	**0.5**
Building 71 Groundwater Solvent Plume Building 71B Lobe												
				139					2,930	257	5.3	
Building 51/64 Groundwater Solvent Plume												
	7,550	63	1,680	455	42	8.4	12	4.8	510	759	249	16
Building 51L Groundwater Solvent Plume												
	126		36	1,360	645				28	541	1,350	
Old Town Groundwater Solvent Plume Building 7 Lobe												
	28		110	150					46,600	34,600	2.8	2,400
Old Town Groundwater Solvent Plume Building 25A Lobe												
			79						8.5	241		1.4
Old Town Groundwater Solvent Plume Building 52 Lobe												
	8.6		22	79					199	164	1.9	5.8
Building 69A Area												
				9.0							34	
Building 75A Area												
				84						16		
Building 76 Area												
				6.7						17		
Building 77 Area												

				6.1								
Other Locations (SB51A-01-8B)												
				22						215		

DCA: dichloroethane TCA: trichloroethane PCE: tetrachloroethene
DCE: dichloroethene TCE: trichloroethene PCA: tetrachloroethane

4.2.1.1 Bevalac Area

Building 71 Solvent and Freon Plumes (AOC 1-9)

Description

The Building 71 Groundwater Solvent Plume consists of two distinct lobes, one containing primarily TCE that originates south of Building 71 and the other containing primarily PCE, TCE, and cis-1,2-DCE that originates south of Building 71B. The lobes commingle just north of Building 46A. Groundwater near Building 71 generally flows southwestwards following the slope of the surface topography (Figure 11).

The Building 71 Freon Plume is defined by the presence of 1,1,2-trichloro-1,2,2-trifluoroethane (Freon-113), primarily in MW71-93-2 and MW71-94-1. Freon-11, Freon-114, and, Freon 123A have also been detected sporadically in the plume area. This plume extends southwards from the west end of Building 71 and is commingled with the Building 71 Lobe of the Building 71 Solvent Plume.

In addition to the plumes described above, relatively low concentrations of 1,1-DCE and 1,1,1-TCA have been detected in well MW71-93-1, just north of Building 71.

Plume Management

To prevent the migration of contaminated groundwater to surface water, contaminated effluent from the 51-01-series hydraugers is piped into a granular activated carbon (GAC) treatment system located east of Building 51. The treated water is discharged to the sanitary sewer.

Excavation and disposal of contaminated soil from beneath and south of Building 71B was completed as an ICM in several phases between 2000 and 2004. This soil was a source for the Building 71B lobe of the Building 71 Solvent Plume. Leaking storm drain lines in the source area were repaired during the soil excavation ICM to prevent infiltrating water from flushing soil

contaminants to groundwater. Beginning in 2003, an in situ chemical oxidation (ISCO) pilot test was conducted in the Building 71B lobe source area and an enhanced bioremediation pilot test using Hydrogen Release Compounds (HRC®) was conducted adjacent to the source area. The tests were completed in 2004. Beginning in September 2004, a soil flushing pilot test was started in the source area. Groundwater is extracted from three downgradient wells (SB71B-04-1, SB71B-04-2, and MW71B-99-3R), treated by GAC, and then reinjected into a gravel-filled excavation in the source area.

Contaminant Concentration Trends

Concentration trends of total halogenated VOCs detected in wells monitoring the Building 71 and Building 71B lobes are plotted on Figure 12a and Figure 12b, respectively. These plots exclude Freon-113, which is derived from the commingled Freon plume, and chloroform and bromodichloromethane, which are present as the result of an East Bay Municipal Utility District (EBMUD) water pipeline leak (LBNL, 2000). The leak was repaired in 1996.

Concentrations of VOCs detected in wells monitoring the Building 71 lobe (MW71-93-2 and MW71-97-23) have shown a decreasing trend since the end of 2000 (Figure 12a), with concentrations of VOCs in all wells monitoring the Building 71 lobe below MCLs since July 2003. Halogenated VOCs (excluding Freon-113, chloroform, and/or bromodichloromethane) were not detected in either MW71-93-2 or MW71-94-1 during the current reporting period. The absence of these VOCs is likely the result of a new EBMUD water pipeline leak, which is indicated by the recent detections of bromodichloromethane and/or relatively high concentrations of chloroform in both wells.

A long-term decline in groundwater concentrations has been observed in wells MW90-3, MW90-4, and MW90-5, monitoring the downgradient portion of the Building 71B lobe (Figure 12b). Concentrations of VOCs in wells monitoring the upgradient part of the lobe have remained relatively stable, except for recent decreases in concentrations observed in MW71B-98-13, which are the result of an HRC pilot test. Seasonal oscillations in VOC concentrations in source area well MW71B-99-3R correlate with variations in the water table elevation, indicating dissolution and leaching of soil contaminants during the rainy season, either when the water

table rises into contaminated soils, or from flushing of contaminated soil by surface water infiltration.

Freon concentrations in the Building 71 Freon Plume have declined from a maximum of almost 9,000 µg/L in 1994 to less than 10 µg/L currently (Figure 13). The onset of this decline coincided with the detection of bromodichloromethane and chloroform within the plume in December 1994, indicating that Freon-113 was being diluted and flushed by the water supply line leak described above. The MCL for Freon-113 is 1,200 µg/L.

Concentrations of halogenated hydrocarbons (1,1,1-TCA and 1,1-DCE) have decreased to trace levels (approximately 1 µg/L or less) in MW71-93-1.

Building 51/64 Solvent Plume

Description

The Building 51/64 Solvent Plume extends from the source area near the southeast corner of Building 64 westwards beneath Building 51B (Figures 10 and 14). The principal plume constituents are halogenated VOCs that were used as cleaning solvents, including 1,1,1-TCA, TCE, PCE, and their associated degradation products (e.g. 1,1-DCE, 1,1-DCA, cis-1,2-DCE, and vinyl chloride). The principal source of the plume was likely the Building 51/64 Former Temporary Equipment Storage Area (AOC 9-12), although other sources in the Building 51/64 area may have contributed to the plume. Groundwater in the plume area flows generally westward and northward towards the lower portion of Blackberry Canyon (Figure 11).

Plume Management

In September 2000, approximately 180 cubic yards of contaminated soil were excavated from the source area near the southeast corner of Building 64 as an ICM, and a groundwater extraction system was installed in the backfilled excavation. Beginning in October 2003, an in situ soil flushing pilot test has been conducted in the source area. The test consists of an injection trench inside Building 64 and an extraction trench on the southeast end of the building. To prevent the discharge of contaminated Building 51 subdrain water to the creek, an ICM was

implemented in 1996 that routes water from the Building 51 subdrain system to a groundwater treatment system. The treated groundwater is then discharged to the sanitary sewer.

Contaminant Concentration Trends

Before implementation of the source area ICM, halogenated VOCs were detected at total concentrations above 100,000 μg/L in groundwater samples collected in the source area, with 1,1,1-TCA comprising approximately 90% of the contaminant mass. Subsequent to the ICM, halogenated VOCs have decreased to a total concentration of approximately 5000 μg/L or less in the source area, with 1,1-DCA the primary VOC detected.

The time variations in concentrations of total halogenated non-aromatic VOCs detected in wells monitoring the Building 51/64 Groundwater Solvent Plume are plotted on Figures 15a and 15b. Concentrations of VOCs detected in MW51-96-18, SB64-98-17, and SB64-98-8 near the plume source area have decreased significantly since the ICM was implemented. There has also been a decreasing trend in the concentrations of VOCs detected in MW51-96-16, in the plume core. As can be seen on Figure 15a, there have been further significant decreases in concentrations of VOCs detected in source area wells since the soil flushing pilot test was started. Except for a decrease in the concentration of vinyl chloride in MW56-98-2, concentrations of VOCs detected in other wells monitoring the plume have remained relatively constant.

<u>Building 51L Solvent Plume</u>

Description

The Building 51L Solvent Plume is centered near the southwest corner of Building 51L (Figures 10 and 16). The principal plume constituents are halogenated VOCs that were used as cleaning solvents, including TCE, PCE, and associated degradation products (e.g., cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride). Based on the results of soil and groundwater sampling, solvent spills that occurred at the location of Building 51L appear to be the primary source for the soil and groundwater contamination. The groundwater contamination appears to be primarily limited to the artificial fill and colluvium. Groundwater in the vicinity of the plume flows northwards towards a former northwest-flowing drainage course (Figure 11). In addition

to the plume described above, relatively low concentrations of TCE (below MCLs) have been detected in well MW51-98-5, to the north of the plume area.

Plume Management

Groundwater has been extracted from well EW51L-99-1 and/or EW51L-00-1 in order to to ensure that contaminated groundwater does not infiltrate into the storm drain catch basin where it could potentially migrate to surface water. A soil flushing pilot test is also being conducted to flush the contaminated groundwater from the area of temporary groundwater sampling point SB51A-01-8B. The extracted water is treated at the Building 51L treatment system and injected into MW51-01-11.

Contaminant Concentration Trends

Concentrations of halogenated VOCs detected in SB51L-98-1A and SB51L-02-3 located near the southwest corner of Building 51L showed a general increasing trend through approximately September 2003, but have since remained relatively stable or declined (Figure 17). The increase in concentrations is attributed to operation of extraction well EW51L-00-1, located within approximately 15 to 20 feet, which may have drawn higher concentration groundwater towards the two sampling points.

4.2.1.2 Old Town Area

The Old Town Groundwater Solvent Plume is a broad, multi-lobed groundwater plume that underlies much of the Old Town area (Figure 18). The geometry and distribution of chemicals in the plume indicate that it consists of three coalescing lobes (Building 7, Building 52, and Building 25A) that were originally discrete plumes derived from distinct sources. In addition, there is a small plume of contaminated groundwater near Building 37, toward the south.

<u>Old Town Groundwater Solvent Plume - Building 7 Lobe (AOC 2-4)</u>

Description

The Building 7 lobe extends northwestward from the northwest corner of Building 7 to the parking area downslope from Building 58 (Figure 19). The Building 7 lobe contains significantly

higher VOC concentrations than the other two plume lobes. The principal lobe constituents are halogenated non-aromatic VOCs that were used as cleaning solvents, including PCE and carbon tetrachloride, and their associated degradation products (e.g. TCE 1,1-DCE, cis-1,2-DCE, and vinyl chloride). Leaks and/or overflows of halogenated hydrocarbons (primarily PCE) from an abandoned sump (the Former Building 7 Sump [AOC 2-5]) were the source of the contamination. The contents of the sump were removed in 1992, when the sump was discovered. Groundwater near the lobe flows generally westward to northwestward (Figure 20).

Plume Management

From 1992 through the current reporting period, ICMs were implemented where they were determined to be necessary to protect human health and the environment. In addition, pilot testing has been conducted to evaluate the effectiveness and implementability of potential remedial technologies. Following is a list of ICMs and pilot tests that have been implemented to manage the Building 7 Lobe:

ICMs and Pilot Test for Building 7 Lobe

Date	Location	Comments
Excavation and Removals		
1992	Source location	Removal of the contents (free product) in the Building 7 Sump, the source of the Building 7 lobe.
1995	Source location	Removal of the Building 7 Sump and excavation of source area soil to a depth of 17 feet to remove highly contaminated soil and free product.
In-Situ Soil and/or Saturated Zone Flushing		
1996 ongoing	Source zone immediately downgradient from the Former Building 7 Sump location	Groundwater extraction from the Building 7 Groundwater Collection Trench. Treatment of extracted groundwater with a Granular Activated Carbon (GAC) treatment system, and recirculation of the treated water into the 17-feet deep (approximate top of saturated zone) gravel-filled sump excavation. Recirculation temporarily halted during thermally enhanced soil vapor extraction pilot test. Method has been effective in reducing concentrations of contaminants in the groundwater and soil in the source zone and controlling downgradient migration.
1998 ongoing	Leading edge	Extraction of groundwater from the Building 58 West Groundwater Collection Trench at the downgradient edge of Building 7 lobe. Installed to control migration of the downgradient edge of the Building 7 lobe.

		Method has been effective in controlling migration of the leading edge of the Building 7 lobe.
1999 ongoing	Core zone	Extraction of groundwater and soil gas from the Building 58/58 Slope Groundwater Collection Trench. Starting in October 2003, treated groundwater was discharged on the slope above the collection trench to flush the downslope core zone. Method has been effective in controlling downgradient migration of the core zone.
2002 ongoing	Downgradient edge of the core zone	Extraction of groundwater from Building 58 East Groundwater Collection Trench. Method has been effective in controlling downgradient migration of the core zone.
2002-ongoing	Core zone downgradient from the Building 7 Groundwater Collection Trench.	Injection of treated groundwater into six injection wells. Capture of the injected water at three downgradient extraction wells and from the upgradient collection trench.
Thermally Enhanced Soil Vapor Extraction Pilot Test		
2001 ongoing	Source zone immediately downgradient from the Former Building 7 Sump	Conductive electrical heating of soil in three boreholes combined with extraction of both soil vapor and groundwater from one central and three peripheral extraction wells. Method has been effective in removing contaminant mass from the source zone
Migration Control Compliance Measure		
1998	Building 7 lobe periphery zone	A drain line was plugged and a sump was installed to capture contaminated effluent to prevent migration of contaminated water through the drain system to surface water. Method has been effective in controlling migration of contaminated water to surface water.

Contaminant Concentration Trends

Concentration trends for total halogenated non-aromatic VOCs in selected wells monitoring the Building 7 lobe are shown on Figures 21a, 21b, 21c, 21d, and 21e. The concentrations of VOCs detected in most of the wells monitoring the lobe have been relatively stable or have declined. The declining trends, particularly in the source area, are primarily the result of the ICMs and pilot tests that have been implemented. The most marked long-term decline in concentrations has been observed in monitoring well MW7B-95-21, which is located between the Former Building 7 Sump and the Building 7 Groundwater Collection Trench. The concentration of total halogenated VOCs detected in MW7B-95-21 has declined from

approximately 300,000 µg/L to 2,000 µg/L or less (Figure 21e). This decline is attributed primarily to the effects of soil flushing. Concentrations have remained low since soil flushing was halted at the beginning of 2003.

The Building 7 in situ soil flushing pilot test has been effective in reducing VOC concentrations in the upgradient core area of the Building 7 lobe. The test has resulted in significant declines in VOC concentrations in MW7-95-23, which is screened in the Mixed Unit and Orinda Formation and MW7B-95-24, which is screened in the Moraga Formation and Mixed Unit (Figure 21b). Flushing has also reduced VOC concentrations measured in core area wells screened solely within low permeability rocks of the Mixed Unit (e.g., wells MP7-99-1B and MP7-99-2B). The concentration of total VOCs in MP7-99-2B has declined from approximately 80,000 µg/L or more to 20,000 µg/L. Groundwater VOC concentrations have also declined in MW58-00-12 and MW91-8 as a result of the discharge of treated-groundwater to surface soil at the top of the Building 53/58 slope (Figure 21c).

Concentrations of VOCs have also declined in other wells in the core area of the Building 7 lobe (Figure 21c), particularly after startup of the Building 53/58 slope groundwater extraction trench. Well MW58-96-11, adjacent to trench, and well MW53-95-12, a short distance upgradient of the trench, have exhibited the most marked concentration declines.

Contaminant trends in downgradient wells have been variable. There has been an increasing trend in concentrations of VOCs detected in well MW58-95-19, which is located immediately east of Building 58, while there has been a recent decreasing trend in MW58A-94-14, which is located further downgradient (Figure 21d).

Old Town Solvent Plume - Building 52 Lobe

Description

The Building 52 lobe extends northwestward from the area east of Building 52A to the east side of Building 46, where it is intercepted by the Building 46 subdrain (Figure 18). The principal lobe constituents are halogenated VOCs that were used as cleaning solvents, including PCE and carbon tetrachloride, and their degradation products (e.g. TCE, 1,1-DCE, cis-1,2-DCE,

and chloroform). Several of the primary plume constituents were detected in soil samples collected east of Building 52A, suggesting that a release in this area may have constituted the primary plume source. Groundwater flows generally northwestward in this area (Figure 20).

Plume Management

Groundwater at the downgradient edge of the Building 52 lobe is intercepted by a subdrain located on the east side of Building 46, and treated by a GAC system. An ICM was conducted in 2001 that consisted of excavation of contaminated soil from the source area. An ICM using soil-flushing technology was initiated for the Building 52 lobe in May 2003. This ICM has comprised injection of treated groundwater into monitoring wells MW52-98-8B and MW52-98-9 in the upgradient portion of the lobe. Additional injection and extraction wells were installed in September 2004 to increase the volume of the plume subject to flushing.

Contaminant Concentration Trends

Prior to the soil flushing pilot test, the only consistent long-term trend in concentrations of halogenated VOCs detected in wells monitoring the Building 52 lobe was a decreasing trend in MW52-95-2B (Figure 22). Since soil flushing was initiated in 2003, concentrations of VOCs detected in MW52-98-8B, MW52-95-2B, and MW52-98-9 have generally declined.

Old Town Solvent Plume - Building 25A Lobe

Description

The Building 25A lobe extends from Building 25A towards Buildings 7 and 16 (Figure 18), with the highest contaminant concentrations detected in groundwater near the western end of Building 25A. In addition, a segment of this lobe extends southwards beneath Building 25. The principal lobe constituents are halogenated VOCs that were used as cleaning solvents including TCE, PCE, and carbon tetrachloride and their degradation products (e.g. 1,1-DCE, cis-1,2-DCE, and chloroform). Groundwater sampling results indicate that the source area was near the western end of Building 25A; however, a specific source has not been identified. Groundwater flow is generally to the west, south, and southeast, radially away from the area north of Building 25A (Figure 20).

Plume Management

A groundwater collection trench was installed west of Building 25A during the second quarter of FY02 to control migration of contaminated groundwater from the source area. Extraction, treatment, and recirculation of water from the trench were started on April 17, 2002. The treated water is recirculated into a shallow gravel infiltration bed that was constructed upgradient of the trench between Buildings 25A and 44 to help flush contaminants from the soil. Groundwater is also being extracted and treated from monitoring well MW25A-98-3.

Contaminant Concentration Trends

Concentration trends for total halogenated non-aromatic VOCs detected in wells monitoring the Building 25A lobe are shown on Figure 23. VOC concentrations were relatively constant in the source area wells until initiation of the soil flushing pilot test. Since startup of the pilot test, VOC concentrations have dropped substantially in the wells immediately adjacent to the test. The concentrations of total VOCs detected in MW25A-98-3 and MW25A-98-1 have decreased from approximately 250 µg/L to about 50 µg/L. Concentrations in source area wells MW25A-95-15 and MW25A-99-2 and downgradient well MW5-93-10 are also decreasing.

<u>Building 37 VOC Plume (AOC 14-5)</u>

Description

Halogenated non-aromatic VOCs, primarily TCE and PCE, have been detected in wells MWP-7 and MW37-92-6 near Building 37 (Figure 18). The source of the plume is uncertain, although contaminated groundwater derived from the Old Town Plume may have migrated to this area through underground utilities east of Building 6 and/or a drainage pipe. Groundwater in this area flows generally southward (Figure 20).

Plume Management

To control contaminant migration, groundwater was extracted from MWP-7 and MW37-92-6 beginning in January 1994. The extracted water was combined with effluent from drain 37-01-01 and from nearby underground utilities (manhole EMH 133) and then treated by a GAC system. The treated water has been used as makeup water for the Building 37 cooling tower.

Extraction from the two wells was stopped on June 4, 2001 because contaminant concentrations had declined to levels below MCLs in both wells.

Contaminant Concentration Trends

Concentrations of halogenated VOCs have declined in wells MWP-7 and MW37-92-6 since groundwater extraction was initiated in March 1994 (Figure 24). The only VOC detected in either well since January 2003 has been TCE. Concentrations have been below MCLs in both wells since May 2000.

4.2.1.3 Support Services Area

<u>Solvents in Groundwater South of Building 76 (Building 76 Solvent Plume AOC 4-5)</u>

Description

The Building 76 Solvent Plume extends approximately 100 feet southwards from the motor pool area on the south side of Building 76 (Figure 25). The principal plume constituents are halogenated VOCs that were used as cleaning solvents (PCE and TCE) and their degradation products (e.g. cis-1,2-DCE). The Building 76 Motor Pool Collection Trenches and Sump (SWMU 4-3) are suspected to be the primary source of contamination, due to their close proximity to the plume and potential for past releases. A well located north of Building 76 (MW78-97-20) also occasionally contains relatively low levels of TCE (approximately 2 µg/L or less), but is interpreted to be isolated from the Building 76 plume. In addition, diesel- and gasoline-range hydrocarbons and aromatic (fuel-related) VOCs have been occasionally detected in wells in this area. Groundwater in the plume area flows southwards (Figure 26).

Plume Management

No plume management activities have been conducted for the Building 76 Plume.

Contaminant Concentration Trends

VOC concentrations in wells south of Building 76 have remained relatively constant since 1993, as indicated by measurements in monitoring well MW76-1. VOCs have not been detected in downgradient monitoring well MW76-98-22 since March 2001 (Figure 27).

Solvent in Groundwater near Building 69A, Building 75, Building 75A, Building 75B, and Building 77

Description

In addition to the Building 76 plume described above, halogenated VOCs have been detected in several localized areas within the Support Services Area, generally at lower concentrations than in the plumes described in the preceding sections. Although the chemicals detected are all solvent-related, the specific contaminant suites detected within each of these localized areas generally differ, indicating discrete sources. The following table lists the principal contaminants and wells in which they have been detected:

Principal Halogenated VOCs Detected in Groundwater in Support Services Area (Excluding Building 76 Plume)

Subarea	Primary Contaminants	Monitoring Wells
Building 75A	TCE and cis-1,2-DCE	MW75-96-20, MW75-99-7, SB75-02-1
Building 75	1,1-DCE	MW75-98-14
Building 69A	cis-1,2-DCE, vinyl chloride	MW69-97-8, SB69A-99-1
Building 75B	1,1-DCA and 1,1-DCE	MW75-97-5
Building 77	cis-1,2-DCE, 1,1-DCA, 1,1-DCE	MW91-2

Groundwater generally flows southward in the Support Services Area (Figure 26). Prior to development of the area, two tributaries of Chicken Creek flowed southward between the current locations of Buildings 69 and 75. The two tributaries and a third tributary to the east formerly passed beneath the current location of Building 77 and merged to form the main channel of Chicken Creek below Building 77. The former drainages are filled with relatively permeable artificial fill, and constitute southward-directed preferential flow pathways. However, in some of the areas of

contaminated groundwater (e.g., the Building 75A and Building 75 areas) the water table is within relatively impermeable fine-grained sedimentary rocks of the Orinda Formation.

Plume Management

No plume management activities have been conducted in the Support Services Area.

Contaminant Concentration Trends

As shown on Figures 28a and 28b, concentrations of halogenated VOCs detected in wells monitoring the Support Services area have generally shown declining trends, except for wells monitoring the Buildings 75 and 75B area. Concentrations of both total VOCs and the individual chemicals detected in MW91-2 (Building 77 area) have consistently declined since 1992, with concentrations decreasing to levels below the detection limit (trans-1,2-DCE and 1,1-DCE), below MCLs (1,1-DCA), or ranging from slightly above to below MCLs (cis-1,2-DCE). Cis-1,2-DCE (6.1 µg/L) was detected at a concentration only slightly above the MCL of 6 µg/L during the reporting period.

4.2.1.4 Outlying Areas

The Outlying Areas include three geographically separate subareas (Figure 29):

- The Western Outlying Area contains the Building 50/70 complex and Building 88.
- The Northeastern Outlying Area, known as the Life Sciences Area, contains the Building 74/83/84 complex and Building 85.
- The Southeastern Outlying Area contains the Building 62/66 complex and Building 73.

No groundwater VOC plumes have been identified in the Outlying Areas, although low concentrations of halogenated VOCs have been sporadically detected in groundwater samples. No Halogenated VOC has been detected in any Outlying Area well since July 2003.

4.2.1.5 Perimeter and Offsite Wells

A number of monitoring wells at LBNL were constructed to monitor potential offsite contaminant migration. These wells are located within or downgradient to the four study areas described in the preceding sections and sampling data pertaining to them are therefore included on the figures and in the tables associated with those areas. Sampling results from these wells are summarized below:

- MWP-1 is located in the Blackberry Creek parking lot and is used to monitor the quality of groundwater flowing offsite toward North Fork Strawberry Creek (Figure 8e). No VOCs have been detected in MWP-1.

- MWP-2 monitors the quality of groundwater flowing off-site south of Building 70A near the head of Cafeteria Creek (Figure 7). Except for an anomalous detection of PCE in March 1993 and July 1996, no VOCs have been detected in MWP-2.

- MWP-4, MWP-5, MWP-6, and MWP-7 (Figure 8a) monitor groundwater flowing off-site near the heads of several ravines draining the LBNL site. MWP-4 is at the head of a ravine flowing to Cafeteria Creek. MWP-5 is at the head of a ravine southwest of Building 10. MWP-6 and MWP-7 are near the head of Ravine Creek.

  No VOCs have been detected in MWP-4 and only anomalous detections of VOCs have been reported in MWP-5 (3 out of 50 sampling events) or MWP-6 (1 out of 48 sampling events). However, as discussed in Section 4.2.1.2, the Building 37 Solvent Plume has impacted well MWP-7. Concentrations of VOCs detected in MWP-7 declined after groundwater extraction was initiated as an ICM in March 1994. Contaminant concentrations have been less than MCLs since February 2000.

- MWP-8 monitors the quality of groundwater near the head of Ten-Inch Creek south of Building 48 (Figure 8a). Except for anomalous detections of toluene and PCE in March 1993 and PCE and TCE in January 2003, no VOCs have been detected in MWP-8.

- MWP-9, MWP-10, and MW77-97-11 monitor groundwater near the head of Chicken Creek south of Building 77 (Figure 8h). Except for a trace concentration (0.82 µg/L) of Freon-113 in December 1994, VOCs have not been detected in MWP-10. PCE, TCE, cis-1,2-DCE and carbon tetrachloride were sporadically detected in MWP-9 between February 1996 and February 1997, but except for a trace concentration of TCE (1.1 µg/L) in July 2003, have not been detected since. It is suspected that cross contamination during sampling may have introduced the detected compounds into the well. No VOCs have been detected in MW77-97-11, except for single detections of trace to low concentrations (2.2 µg/L maximum) of 1,1-DCA in July 1997, chloroform

in May 1999, and PCE in July 2003. Monitoring wells MW31-97-17, MW31-97-18, and MW31-98-17 were installed near Chicken Creek, downgradient from wells MWP-9, MWP-10, and MW77-97-11. MW31-98-17 is located near the site perimeter. No VOCs have been detected in these wells except for a trace concentration (<1 µg/L) of methyl tert-butyl ether (MTBE) in MW31-97-17 in August 2000.

- Observation well OW3-225, located in the Horseshoe Parking Lot southwest of Building 70A (Figure 7), was installed by UC in 1989. No VOCs have been detected in this well since February 1997. The anomalous detections of VOCs in 1994 and 1997 were attributed to sample cross-contamination.

- Well CD-92-28 (offsite) was installed in 1992 downgradient from the Building 37 solvent plume (Figure 7). The well was constructed on UC property on Centennial Drive near Strawberry Canyon Recreation Area. Except for low concentrations of PCE and/or TCE detected in November 1996, February 1997, and May 2004 VOCs have not been detected in CD-92-28. The presence of PCE and TCE was attributed to sample cross-contamination.

- Several other wells that have been identified as perimeter wells monitor the quality of groundwater downgradient from the developed areas of the site including: MW88-93-11A, MW62-92-26, and MW62-92-27 (Figure 7); MW74-94-7 and MW74-94-8 (Figure 8i); MW61-92-12 (Figure 8h); and MW25-95-27 (Figure 8a). No halogenated VOCs were detected in these wells during the current reporting period.

4.2.2 Petroleum Hydrocarbons and Aromatic VOCs

4.2.2.1 Former or Abandoned UST Sites

The presence of petroleum hydrocarbons and aromatic hydrocarbons in groundwater at LBNL is primarily the result of past releases from former or abandoned underground storage tank (UST) sites. Following is a summary of analytical results for the current reporting period from former or abandoned UST sites where groundwater is sampled for petroleum hydrocarbons. TPH-D (410 µg/L) was detected in MW88-93-13 for the first time during the current reporting period. TPH was not detected in the well the previous 12 times it was sampled since 1994. MW88-93-13 is near the location of the Building 88 Abandoned Diesel UST.

The maximum concentrations of TPH detected at former or abandoned UST sites during the current reporting period were 240 µg/L TPH-kerosene (TPH-K), 1,400 µg/L TPH-diesel (TPH-D), 99 µg/L TPH-gasoline (TPH-G), and 170 µg/L TPH-hydraulic/motor oil (TPH-H/MO) (Table 11).

Petroleum Hydrocarbons Detected at Monitored Former or Abandoned UST Sites

AOC Number	AOC Name	Monitoring Well	TPH Detected During Current Reporting Period	Aromatic or Non-Halogenated VOCs Detected During Current Reporting Period
AOC 2-1**	Former Building 7E	MW7-92-16	TPH-K	ND
		MW6-93-4	TPH-K	ND
		MW6-95-14	ND	ND
		SB7-97-1	TPH(H-MO)	ND
		SB6-96-2	TPH-D	ND
AOC 4-1*	Building 76 Former Gasoline UST	MW76-1	TPH-D	ND
AOC 4-2*	Building 76 Former Diesel UST	W76-97-3	TPH-D	ND
		W76-97-4	TPH-D/TPH-G	ND
		W76-97-5	TPH-D/TPH-G	ND
		MW76-93-6	TPH-D	ND
AOC 6-1*	Building 88 Abandoned Diesel UST	MW88-93-13	TPH-D	ND
AOC 11-1*	Building 74 Former Diesel UST	MW74-92-13	TPH-D	NA
		MW83-92-14	TPH-D	NA
		MW74-94-7	TPH-D	ND
		MW74-94-8	TPH-D	ND
		MW74-95-6	TPH-D	ND
		MW83-95-7	TPH-D	NA
AOC 13-2*	Building 62 Former Diesel UST	MW62-B1A	ND	ND
		MW62-B2	TPH-D	ND
		MW62-95-16	NA	ND

NA = Not analyzed during current reporting period.
ND = Not detected during current reporting period.
*Former or Abandoned UST Sites Approved for No Further Action (NFA) Status by the City of Berkeley.
**Former or Abandoned UST Sites recommended not to be retained in the Corrective Measure Study based on results of the Human Health Risk Assessment.

Two groundwater contamination plumes are associated with former UST sites: the Building 7 Diesel Plume and the Building 74 Diesel plume (Figure 9).

Building 7 Diesel Plume (AOC 2-1)

Description

The Building 7 Diesel Plume contains diesel- and kerosene-range petroleum hydrocarbons (TPH-D and TPH-K). The plume is located immediately north of Building 6, and extends westwards from the source of contamination, the former Building 7E Kerosene Underground Storage Tank (UST) (Figure 9). The UST and adjacent contaminated soil were excavated in 1989.

Plume Management

Dual-phase (groundwater and soil vapor) extraction has been conducted in the source area since 1998, with extraction primarily from well MW6-95-14, located within the former UST excavation, and alternately from well MW6-93-4, located downgradient from the excavation. Groundwater is treated using GAC, then discharged to the sanitary sewer, or reinjected in the Old Town VOC plume core area for soil flushing. Groundwater quality at the former UST location is monitored by well MW7-92-16, which is also located within the UST excavation, but screened at a greater depth than MW6-95-14. Soil gas is treated by a second GAC system, and then released to the atmosphere under permit from the Bay Area Air Quality Management District (BAAQMD). Soil gas was extracted intermittently during 2004, with the system turned off from July 26 through the end of the reporting period.

Contaminant Concentration Trends

The concentration of TPH-K detected in MW7-92-16 has decreased from approximately 100,000 µg/L or more prior to the start of dual phase extraction in 1998 to approximately 1,000 µg/L or less (Figure 30). During the current reporting period, TPH-K was detected at a concentration of 170 µg/L and 240 µg/L in MW7-92-16 and MW6-93-4, respectively (Table 11). TPH-D (590 µg/L) and TPH-H/MO (170 µg/L) were also detected in downgradient temporary groundwater sampling point SB6-96-2 and in upgradient/transgradient sampling point SB7-97-1, respectively. Aromatic hydrocarbons were not detected in any of the wells monitoring the plume during the current reporting period.

<u>Building 74 Diesel Plume</u>

Description

The Building 74 Diesel Plume contains diesel-range petroleum hydrocarbons, and previously contained aromatic VOCs. The location of the plume is shown on Figure 9. The source of the plume was apparently a pipeline leak associated with the former Building 74 Underground Diesel Storage Tank (AOC 11-1). The tank was installed in 1979 and removed in November 1994. Groundwater flow in the plume area is generally southwards towards Strawberry Creek.

Plume Management

No plume controls have been implemented for the Building 74 Diesel Plume.

Contaminant Concentration Trends

Except for 1,3,5-trimethylbenzene (1.8 µg/L) in MW74-94-8 in July 2003, aromatic hydrocarbons have not been detected in any of the wells monitoring the plume since February 1995.

Concentrations of TPH-D detected in the six wells monitoring the plume during the current reporting period ranged from 88 µg/L to 1,400 µg/L. The time variations in the concentration of TPH-D detected are plotted on Figure 31. Long-term TPH-D concentrations in the six wells have been relatively stable or have shown a decreasing trend. However, concentrations increased in all six wells during the current reporting period. Future sampling should indicate whether this increase represents an anomalous result, or reflects a change in concentration trends. Three of the six wells were also sampled for VOCs during the current reporting period. No VOCs were detected.

4.2.2.2 Aromatic and Non-Halogenated Hydrocarbons and Petroleum Hydrocarbons Not Associated with UST Sites

In addition to the former UST locations discussed in the previous section, the presence of petroleum hydrocarbon in groundwater has been monitored at the locations listed in the following table. TPH-D (93 µg/L) was detected at the former Building 52B Abandoned Above Ground Storage Tank site but not at the Building 37 Electrical Substation. The results are consistent with previous results from the wells.

Summary of Results at Units Other Than UST Sites that have been Monitored for Petroleum Hydrocarbon

Unit Number	Unit Name	Monitoring Well	Fuel Analytes Detected During Current Reporting Period	Aromatic VOCs and MTBE Detected During Current Reporting Period
SWMU 2-2*	Building 52B Abandoned Above Ground Storage Tank	MW52B-95-13	TPH-D	ND
AOC 14-7*	Building 37 Electrical Substation	MW37-94-9	ND	ND

ND = Not detected during current reporting period.
* Unit recommended not to be retained in the Corrective Measure Study based on results of the Human Health Risk Assessment.

TPH-crude/waste oil (TPH-C/WO) or TPH-D was detected in seven wells not associated with known or potential fuel release sites. TPH-C/WO was detected at a maximum concentration of 510 µg/L in two wells monitoring the Old Town plume (MW53-95-12 and MW90-2) and at a maximum concentration of 430 µg/L in three wells in the Support Services Area (MW91-4, MW69-97-8, and MW75-97-5). TPH-D (280 µg/L maximum) was detected in two wells monitoring the Old Town plume (MW58-93-3 and MW16-94-13). The results are consistent with previous results from the wells. The sources of the TPH-crude/waste oil and the TPH-D are not known.

Wells in which aromatic or non-halogenated hydrocarbons were detected during the current reporting period are listed in the following table. Except for benzene in MW7-00-4, MW75A-00-7, MW53-92-21-130', and MW91-4, concentrations of aromatic or non-halogenated hydrocarbons were below MCLs. The benzene detected in these four deep Orinda Formation wells may be naturally occurring. The reported detection of toluene in several wells (MW25A-00-5, MW77-92-10, MW91-1, MW4-96-2, and MW70A-96-14) is questionable, since toluene had not been detected in these wells previously.

Concentrations (µg/L) of Aromatic and Non-Halogenated Hydrocarbons Detected in Groundwater not Associated with UST Sites (Fourth Quarter FY03)

Detected Compounds	MCL (µg/L)	Well	Concentration (µg/L)
benzene	1	MW75A-00-7	55
		MW91-4	16
		MW7-00-4	3.7, 1.4
		MW53-92-21-130'	1.1
		SB69A-99-1	0.7
p-isopropyltoluene		MW61-92-12	1.3
toluene	150	SB64-02-2(B to E)	9.4 maximum
		SB64-02-1E	1.4
		MW75A-00-7	1.4
		MW91-5	1.1
		MW25A-00-5	1.1
		MW77-92-10	1.9
		MW91-1	1.6
		MW4-96-2	1.0
		MW70A-96-14	1.5

4.2.3 Tritium

The Building 75 Tritium Plume extends from the Corporation Yard (the area between Buildings 69 and 75) southwards towards Chicken Creek (Figures 9 and 33). A smaller area of tritium-contaminated groundwater had been identified near Building 71B. Concentrations of tritium detected in groundwater during the current reporting period are listed in Table 12 and shown at the monitoring well locations on Figure 32 and Figure 33.

<u>Building 75 Tritium Plume (SWMU 3-7)</u>

Description

The Building 75 Tritium Plume extends southwards from the Building 75 area, beneath Building 77 and towards Chicken Creek. The source of the plume was the former National Tritium Labeling Facility (NTLF), which operated inside Building 75 for almost 20 years until December 2001. Groundwater in the Corporation Yard area generally flows southwards (Figure 26).

Plume Management

Slope stability and observation wells within the Support Services Area were originally constructed without surface seals, and so were open to infiltration from surface water. To prevent infiltration of potentially contaminated surface water, slope stability wells and observation wells in the Support Services Area were upgraded with bentonite and cement surface seals or were properly destroyed by overdrilling and backfilling with concrete. In addition, a defect identified in the sanitary sewer line southeast of Building 75B was repaired in 1997.

Examination of subsurface utilities indicated that leakage of clean water from corroded metal stormdrains recharged groundwater in the Building 69/75 area. This artificial recharge would increase the potential for movement of tritiated groundwater. To prevent leakage of water from the stormdrains and eliminate the resultant artificial recharge of the groundwater, corrugated-metal stormdrains in this area were lined with PVC casings. This measure should reduce the velocity, and corresponding downgradient migration, of tritiated groundwater.

Contaminant Concentration Trends

Tritium concentration trends in wells monitoring the Building 75 Tritium Plume since December 2000 (since closure of the NTLF) are shown on Figures 34. Long-term tritium concentration trends are shown on Figures 35a and 35b. MW75-97-5 has been the only monitoring well in which tritium has been detected at a concentration above the MCL (20,000 pCi/L). Tritium concentrations in MW75-97-5 have been declining, with the concentration detected during the current reporting period (21,211 picocuries per liter (pCi/L)), only slightly above the MCL (Table 12). Decreasing trends in the tritium concentrations have also been observed in most wells monitoring the plume since the end of 2000, which are listed in the following table. The decreasing trends are likely related to closure of the NTLF.

Wells Monitoring the Building 75 Tritium Plume with Decreasing Trends in Tritium Concentrations since Closure of the NTLF

Location	Well
Core Area wells	MW77-94-6 MW77-97-9
Source Area wells	MW91-5 MW91-6 MW75-92-23 MW75B-92-24 MW75-97-5
Cross Gradient wells	MW69-97-21 MW75-97-7 MW78-97-20 MW76-1[(a)] MW76-93-7[(a)] MW76-98-21[(a)] MW76-98-22[(a)]

(a): Tritium has not been detected in any of these wells since February 2002.

Building 71 Area

Tritium has been detected in four monitoring wells near Building 71 (MW71-95-9, MW46A-92-15, MW71B-98-13, and MW71B-99-3R). The contamination is localized to the vicinity of Building 71B, with concentrations substantially lower than those detected in the Building 75 plume. The tritium was likely derived from surface runoff from the Lawrence Hall of Science area to the northeast of Building 71.

Plume Management

No plume management measures were implemented.

Contaminant Concentration Trends

MW71-95-9 was the only Building 71 area well in which tritium was detected during the annual summary period (556 pCi/L during the current reporting period) (Figure 32). The concentration of tritium in the groundwater near Building 71 has generally decreased to a level below the detection limit (<300 pCi/L) since closure of the NTLF (Figure 36).

4.2.4 Metals

Annual site-wide sampling of groundwater monitoring wells for metals was conducted during the current reporting period. Concentrations of metals detected are listed in Table 13. Excluding results from MW71B-98-13, where a Hydrogen Release Compound® (HRC®) pilot test was being conducted, the only metals detected at concentrations above the MCL and LBNL background levels were arsenic (MW7-00-4, MW75-99-8, MW64-97-1, MW25A-00-5, MW37-92-18A, and MW52A-00-6) and selenium (MW64-97-2 and MW7-00-4). Detected metals concentrations were consistent with previous analytical results (LBNL, 2000; 2003a). MW7-00-4, MW25A-00-5, and MW52A-00-6 are deep wells screened in the Orinda Formation. The elevated levels of arsenic and/or selenium detected in these wells are likely naturally occurring. MW75-99-8, MW64-97-1, and MW64-97-2 are also screened in the Orinda Formation. The elevated levels of arsenic and/or selenium detected in these wells may also be naturally occurring.

The HRC pilot test conducted at MW71B-98-13 resulted in temporary increases in the concentrations of several metals in the groundwater, apparently as the result of the lowered pH. Concentrations of barium and nickel increased to levels above the MCL. Elevated levels of barium, and cobalt were also detected. The concentration of iron increased from 740 µg/L prior to the test to a maximum of 100,000 µg/L.

4.2.5 PCBs

Samples were collected from 15 groundwater monitoring wells and temporary sampling points during the current reporting period and analyzed for PCBs. The samples were collected in four areas where PCBs had been detected in the soil during the RFI. The areas sampled included the Building 52 Former Hazardous Materials Storage Area (MW52B-95-13), the former Building 75 Hazardous Waste Handling Facility (Area 3 samples), the Building 51 Sanitary Sewer and Drainage System (Area 9 samples), and the Building 16 Former Waste Accumulation Area (SB16-97-11 and SB16-98-1). No PCBs were detected (<0.2 µg/L) (Table 14).

4.3 SURFACE WATER SAMPLING

In September 2004, surface water samples were collected from the four LBNL creeks that were flowing, and analyzed for VOCs, metals, and tritium. Sampling included upstream and downstream locations on Chicken Creek and North Fork Strawberry Creek and a single location on Botanical and No Name Creeks. Surface water sampling locations are shown on Figure 3. Analytical results are provided in Table 15a (VOCs and metals) and Table 15b (tritium). No VOCs or tritium (<300 pCi/L) was detected. Arsenic, barium, selenium, vanadium, and zinc were the only metals detected. Concentrations detected were consistent with previous results.

4.4 SOURCE INVESTIGATIONS

Building 76 Groundwater Solvent Plume

Soil and groundwater samples are being collected to help assess whether elevated concentrations of VOCs previously detected in soil gas and indoor air samples collected at Building 76 were derived from the soil or groundwater beneath the building. Borings are being installed inside the service bay area of Building 76 and immediately south of the building. Two of the planned borings (SB76-04-1 and SB76-04-3) were installed during the current reporting period and converted to temporary groundwater sampling points. The locations of the temporary groundwater sampling points are shown on Figure 25. SB76-04-1 was drilled to a depth of 22 feet, with saturated conditions encountered at a depth of 15 feet. Three-quarter inch PVC casing was installed in the boring to allow the collection of groundwater samples. Due to caving conditions, casing could only be installed to a depth of 25 feet in SB76-04-3. SB76-04-3 is dry and will be deepened. Soil samples were collected from both borings at intervals of 5 feet or less and analyzed for VOCs. No VOCs were detected (Table 16).

4.5 REPORTS, MEETINGS, AND COMMUNITY RELATIONS ACTIVITIES DURING THE CURRENT REPORTING PERIOD

Reports and Workplans

- LBNL submitted the Draft Corrective Measures Study Report to the DTSC on July 19, 2004 (LBNL, 2004e).

- LBNL submitted the Quarterly Progress Report for the Second Quarter of FY04 to the DTSC on August 31, 2004, in compliance with LBNL's RCRA Part B Permit.

- LBNL submitted the semi-annual Self-Monitoring Report (for March 1 through September 8, 2004) for treated water discharged to the sanitary sewer to EBMUD on September 17, 2004.

Meetings

- Remedial Project Managers meeting were held at the DTSC offices on July 8, August 19, and September 9, 2004. Representatives of the DTSC, RWQCB, City of Berkeley, DOE, and LBNL attended all meetings.

Community Relations

- Iraj Javandel gave a public presentation on LBNL ERP semi-annual activities prior to the Berkeley Community Environmental Advisory Commission (CEAC) meeting on July 1, 2004 and presented information on the Draft Corrective Measures Study (CMS) Report prior to the September 2, 2004 CEAC meeting.

- The ERP web page (http://www.lbl.gov/EHS/ERP) went on line during the current reporting period.

SECTION 5

SUMMARY OF PROBLEMS ENCOUNTERED

5.1 DEFINITIONS

In accordance with the LBNL RCRA Part B Hazardous Waste Facility Permit, Quarterly Progress Reports are required to address problems encountered and actions taken to rectify problems. Problems are defined here as follows:

1. Quality Assurance and Quality Control problems that would result in failure to meet data quality objectives.
2. Findings that indicate the presence of contamination that could impact human health or the environment, and for which activities are not specified in existing workplans to either further evaluate or remediate the contamination.

5.2 QUALITY ASSURANCE / QUALITY CONTROL

5.2.1 Laboratory Quality Control

Laboratory quality assurance/quality control (QA/QC) problems identified in the laboratory data packages are noted in the following table. The affected samples were noted (flagged) in the database. The data validation review indicated that the identified laboratory QA/QC problems were not sufficient to assign an “R” qualifier (i.e., the data are not usable for any project purpose) to any of the data.

Analytical Laboratory Deficiencies

Laboratory	Chain of Custody	Location	Deficiency
LBNL EML	04-8-2	EW58E-98-6	TCE concentration above highest point of calibration curve.
	04-9-10	SB51L-03-1	Chloroethane result bias high due to high recovery in calibration check.
BC Laboratories	04-7-10	MW74-94-7 MW83-95-7	Matrix spike Relative Percent Difference (RPD) for diesel above control limit.
	04-7-31	MW46-92-9 MW62-B1A MW62-B2 MW76-93-7	Laboratory Control Sample recovery for diesel below control limits.
	04-8-16	MW52B-95-13	Surrogate recovery and matrix spike recovery for decachlorobiphenyl below control limit.
	04-7-31	MW76-93-7	Matrix spike RPD for gasoline above control limit.
	04-8-25	HI7-00-1 HI7-00-2	Matrix spike duplicate recovery for TCE above control limit.
	04-9-7	N. Fork Strawberry Creek SB17-02-1	Matrix spike recovery for selenium above control limit and for antimony below control limit.
	04-9-12	SB16-98-1	Surrogate recovery for decachlorobiphenyl below control limit.

5.2.2 Field Quality Control

QC Samples

Fourteen field (equipment/rinse) blanks and seven trip blanks were collected and analyzed for VOCs during the current reporting period (Table 17). In addition, one equipment/rinse blanks was analyzed for TPH-D (Table 11), one for fuels (Table 11), five for tritium (Table 12), and three for metals (Table 13). The only analytes detected in the blanks were TPH-crude/waste oil (130 µg/L) in the single equipment/rinse blank collected for fuels and zinc (20 µg/L maximum) in all three metals blanks.

The source of the crude/waste oil detected in the fuel blank is unknown but may have resulted from insufficient equipment decontamination. All five of the wells in which crude/waste oil was detected during the current reporting period have had previous detections at similar concentrations as were detected during the current reporting period, and therefore the TPH results for the current reporting period do not appear to have been affected.

The source of the zinc in the blanks is not known. The concentrations of zinc in groundwater samples collected during the current reporting period are questionable since they were generally greater than the 2003 annual metal sampling results. For 13 of the 22 samples where zinc was detected in 2004, the concentration was below the detection limit (<10 µg/L) in 2003. Although the 2004 results are generally slightly higher than the 2003 results (by approximately 10 to 20 µg/L), they are still orders of magnitude below the secondary MCL (5,000 µg/L).

Five duplicate groundwater samples were collected and analyzed for VOCs, four for tritium, and three for metals during the current reporting period. Duplicate results were consistent with the primary sample results. The relative percent difference (RPD) for the five duplicate VOC samples ranged from 3% to 36%, with the results provided by BC laboratories consistently greater than those of the LBNL EML. The RPD for tritium results ranged from approximately 4% to 12% and for metals from approximately 2% to 35%.

Anomalous Detections of Toluene

As was discussed in Section 4.2.2.2, low concentrations (approximately 2 µg/L or less) of toluene were detected at several sampling locations where it had not been detected previously. The reason for the anomalous detection of toluene is not known.

SECTION 6

INTERIM CORRECTIVE MEASURES AND PILOT TESTING

6.1 INTERIM CORRECTIVE MEASURES AND PILOT TESTS AT GROUNDWATER UNITS

A summary of ongoing and newly implemented interim corrective measures (ICMs) is given below:

Old Town Solvent Plume (Building 7 lobe)

On-Going Groundwater / Soil-Vapor Extraction and Treatment

Extraction and treatment of groundwater continued at the following locations:

- Building 7 Groundwater Collection Trench.
- Building 58 West Groundwater Collection Trench.
- Building 58 Southeast Groundwater Collection Trench.

Dual phase (groundwater and soil vapor) extraction continued at the Building 53/58 Slope Collection Trench. The locations of the Building 7 lobe collection trenches are shown on Figure 18 and Figure 19.

Soil Flushing Pilot Test

The in situ soil flushing pilot test in the upgradient core area of the Building 7 lobe of the Old Town Groundwater Solvent Plume continued. Treated groundwater is injected into the six-well injection system (IW7-02-1 through IW7-02-6) south of Building 53 and onto the slope west of Building 53. The locations of the injection wells are shown on Figure 19. Water injected into the well system either flows westward where it is captured by the three extraction wells (EW7-03-1 through EW7-03-3) or eastward where it is captured by the Building 7 Groundwater Collection Trench. The water injected onto the slope is captured by the downgradient extraction trenches. The time variations in the concentrations of total VOCs detected in the extraction wells are shown on Figure 37. The concentration of total VOCs detected in EW7-03-3 has decreased from

approximately 40,000 µg/L to 6,000 µg/L. Concentrations of total VOCs detected in the other two extraction wells have decreased from approximately 2,000 to 5,000 µg/L to less than 500 µg/L.

Thermally Enhanced Soil Vapor Extraction Pilot Test

Operation of the thermally enhanced soil vapor extraction pilot test continued. Hot air injection was started on June 3, 2004. On July 27, 2004, heater number 1 was removed due to an electrical problem. The heater was repaired and reinstalled on September 9, 2004. Concentrations of VOCs detected in groundwater samples collected from the heater test dual phase extraction wells have decreased to approximately 2,000 µg/L in DPE7-03-1 and DPE7-03-3 from initial concentrations greater than 10,000 µg/L. Relatively low concentrations have been detected in DPE7-03-2, with the concentration decreasing to less than 200 µg/L during the current reporting period. The locations of the extraction wells are shown on Figure 19. Concentrations of VOCs detected in soil water collected from the lysimeters in the instrument wells continue to remain high, which is believed to be the result of condensation of VOCs vaporized by the heating process.

Old Town Groundwater Solvent Plume (Building 52 Lobe)

Soil Flushing Pilot Test

The in situ soil flushing pilot test in the Building 52 lobe of the Old Town Groundwater Solvent Plume continued. Treated water from the Building 46 system has been injected into monitoring well MW52-98-9 and MW52A-98-8. The flushing has resulted in decreasing concentrations of VOCs detected in downgradient monitoring wells MW91-8 and MW53-93-9. The locations of MW91-8 and MW53-93-9 are shown on Figure 8b. The time variations in the concentrations of total VOCs detected in the two wells are shown on Figure 38.

During the current reporting period, two groundwater injection wells (IW5-04-1 and IW5-04-2) were installed in the Building 52 lobe source area east of Building 52A and three groundwater extraction wells (EW27-04-1, EW53-04-1, and EW53-04-2) were installed at the

downgradient edge of the plume. The locations of the new injection and extraction wells are shown on Figure 8a and Figure 8b.

Old Town Groundwater Solvent Plume (Building 25A Lobe)

Soil Flushing

Extraction, treatment, and recirculation of groundwater in the Building 25A Groundwater Solvent Plume source area continued. Groundwater is extracted from the Building 25A Groundwater Collection Trench (west of Building 25A) and groundwater monitoring well MW25A-98-3 (north of Building 25A). The locations of the trench and extraction well are shown on Figure 8a and Figure 18. The extracted groundwater is treated and then recirculated into a shallow gravel-filled infiltration bed located upgradient of the trench between Buildings 25A and 44A. The time variations in the concentrations of total VOCs detected in MW25A-98-1, MW25A-98-3, and MW25A-98-7, which are located within the core area of the plume, are shown on Figure 39. Since soil flushing began in 2002, the concentrations of total VOCs detected in MW25A-98-1, MW25A-98-3, and MW25A-98-7 have declined from approximately 200 to 400 µg/L to 50 µg/L or less.

Building 51/64 Solvent Plume

Soil Flushing Pilot Test

Extraction, treatment, and recirculation of groundwater in the Building 51/64 solvent-plume source-area continued. Groundwater is extracted from a collection trench outside the southeast side of Building 64 and from extraction well EW64-00-1 in the gravel-backfilled source area ICM excavation at the southeast corner of the building. The extracted groundwater is treated and then injected into the trench inside Building 64. The locations of the injection and extraction trenches are shown on Figure 14. Treated water from the Building 51 Fire Trail system is also injected into the trench.

Prior to excavating contaminated soil in the source area as an ICM, the maximum concentration of VOCs detected in groundwater was greater than 700,000 µg/L. As of the end of September 2004, the maximum concentration of VOCs detected in groundwater in the source area had declined from more than 30,000 µg/L prior to the pilot test to less than 5,000 µg/L.

Building 71B Lobe of the Building 71 Solvent Plume Area

Soil Excavation ICM

The soil excavation ICM in the source area of the Building 71B lobe of the Building 71 solvent plume continued during the reporting period. In July 2004, VOC-contaminated soil was excavated from two additional areas on the south side of Building 71B. The first area was beneath the concrete slab to the west of the 2003 ICM excavation area; the second was beneath the wooden deck to the southwest of the 2003 ICM excavation area. The excavation areas are shown on Figure 40. The area under the concrete slab was initially excavated to a depth of 5 feet and soil samples were collected at seven locations at a depth of 3.5 feet on the walls of the excavation (SS71BEXC-04-W1 through -W7), and at six locations (SS71BEXC-04-F1 through -F6) beneath the excavation floor. The floor samples were collected at depths of both 7 and 8 feet (below the concrete surface elevation) on the north side of the excavation, and 8 and 9 feet on the south side of the excavation. Samples were analyzed for VOCs. Concentrations of VOCs detected are listed in Table 16 and shown at the sampling locations on Figure 40. PCE (0.22 milligrams per kilogram [mg/kg] maximum) was the only VOC detected in the wall samples. PCE was detected at a maximum concentration of 0.29 mg/kg in the floor samples. Trace concentrations (<0.1 mg/kg) of trans-1,2-DCE, cis-1,2-DCE, and/or TCE were also detected. Based on the analytical results, the north side of the excavation was deepened to 8 feet and the south side to 7.5 feet. In addition to the area beneath the concrete slab, VOC-contaminated soil was excavated from beneath the wooden deck to a depth of approximately 8 feet. Both areas were backfilled with low-strength concrete.

Soil Flushing Pilot Test

Relatively high PCE concentrations (47 mg/kg maximum) remain in the soil near the southeast corner of Building 71B. The extent of the ICM excavation in this area was constrained due to limitations imposed to maintain the stability of the building foundation. Therefore, to reduce the soil contamination in this area, water is being injected into the gravel-backfilled ICM excavation area to flush the soil contamination. The water used for flushing comes from two sources: treated groundwater extracted from downgradient monitoring well MW71B-99-3R and temporary groundwater sampling points SB71B-04-1 and SB71B-04-2, and the effluent from

hydraugers that previously discharged to the storm drain in this area. The extracted groundwater is treated at a GAC system installed south of Building 71B during the current reporting period. The locations of the extraction wells and the treatment system are shown on Figure 40.

In Situ Chemical Oxidation (ISCO) Pilot Test

Post-injection groundwater sampling continued during the current reporting period to monitor the performance of the in situ chemical oxidation pilot test. The test does not appear to have been effective in reducing VOC concentrations in the groundwater.

Hydrogen Release Compound (HRC®) Pilot Test

Post-injection groundwater sampling continued during the current reporting period to monitor the performance of the Hydrogen Release Compound (HRC) pilot test. Concentrations of VOCs detected in MW71B-98-13 have shown a decreasing trend since the start of the test, with the concentrations of PCE and TCE remaining below MCLs during the current reporting period. MW71B-98-13 is located immediately downgradient from the HRC injection wells. The time variations in the concentrations of total VOCs detected in MW71B-98-13 are shown on Figure 41. Total VOCs declined from approximately 300 µg/L prior to the pilot test to approximately 10 µg/L or less during the reporting period. The results indicate that HRC injection is an effective technology in this area.

Building 51L Groundwater Solvent Plume

Groundwater Extraction and Treatment ICM

Operation of the groundwater extraction and treatment system for the Building 51L Groundwater Solvent Plume continued. The system consists of groundwater extraction wells to lower the water table and prevent contaminated groundwater from entering the storm drain system.

Building 51A/51L Area - Soil Flushing Pilot Test

The in-situ soil flushing pilot test in the Building 51A/51L area continued. The purpose is to flush and extract the groundwater contaminants near SB51A-01-8B.

Building 37 Groundwater Solvent Plume

Extraction and treatment of groundwater from monitoring wells MWP-7 and MW37-92-6 was discontinued in June 2001. Concentrations of VOCs detected in both wells have remained below MCLs since February 2000.

Building 7E Former Underground Storage Tank (UST) (AOC 2-1)

Operation of the Building 6 dual-phase (groundwater and soil vapor) extraction and treatment systems continued until March 1, 2004. The system is located at the former Building 7E Former Underground Storage Tank (UST) site. Dual phase extraction resumed in June 2004 from MW6-95-14 but was temporarily halted on July 26, 2004. Groundwater extraction resumed on August 25, 2004.

Building 71 Groundwater Solvent Plume

Operation of the Building 51 Fire Trail Treatment System continued. The system treats effluent from hydraugers that contain detectable concentrations of VOCs north and east of Building 51 (Figure 8d).

Building 75/75A Area of Groundwater Contamination

Hydrogen Release Compound (HRC®) Pilot Test

Post-injection groundwater sampling continued during the current reporting period to monitor the performance of the HRC pilot test. Groundwater samples were collected from SB75-02-1 and soil water samples from lysimeters SB75-96-2-14' and SB75-96-2-20'. Soil water sample results are provided in Table 18. The concentration of cis-1,2-DCE detected in groundwater samples collected from SB75-02-1 increased sharply after the start of the test, with concentrations of other VOCs remaining relatively stable. The increase in the concentration of

cis-1,2-DCE may indicate that HRC was effective in degrading more highly chlorinated VOCs such as TCE.

6.2 INTERIM CORRECTIVE MEASURES (ICMs) AT SOIL UNITS

Building 88 Hydraulic Gate Unit

The ICM for the Building 88 Hydraulic Gate Unit (Area of Concern 6-3) was completed at the beginning of the current reporting period, with the final confirmations ample collected on July 2, 2004. Results of the ICM were reported in the previous Quarterly Progress Report (third quarter of FY04). PCB-contaminated soil exceeding the 1 mg/kg, the Toxic Substances Control Act (TSCA) self-implementing cleanup level for soil in high occupancy areas, was removed and the site was backfilled with low strength concrete. The maximum PCB concentration in the post excavation confirmatory samples was 0.38 mg/kg.

6.3 INTERIM CORRECTIVE MEASURES FOR CONTAMINATED STORMDRAINS AND SUBDRAINS

Building 51 Motor Generator Room Discharge Sump Treatment System

Extraction and treatment of water from the Building 51 drainage system continued. No contamination has been detected in water samples collected from the sump since October 2002, when 0.54 µg/L of TCE was detected.

Building 51A Catch Basin (Building 51 Subdrains)

Extraction and treatment of water from the concrete sump installed immediately upgradient of the Building 51A storm drain catch basin continued. The sump collects contaminated water from the two drain lines that formerly flowed into the catch basin.

6.4 GROUNDWATER TREATMENT SYSTEMS

The following GAC systems have been installed primarily to treat groundwater that is extracted to prevent further migration of groundwater contamination or to prevent groundwater

contamination from impacting surface waters. Schematic diagrams and sampling requirements for these systems are contained in LBNL Standard Operating Procedure (SOP) 4.6 Water Treatment Systems (LBNL, 1994c). VOC contaminated water is treated to non-detectable levels by the systems and except for the Building 37 system where the treated water is used in the adjacent cooling tower, the treated water is either discharged to the sanitary sewer in accordance with provisions of LBNL's, EBMUD Wastewater Discharge Permit or recirculated to flush contaminants from the subsurface.

- In 1991, the *Building 51 Hydraugers Treatment System* was installed to treat effluent from hydraugers with detectable concentrations of VOCs. These hydraugers are located east of Building 51 (hydraugers 51-01-01, 51-01-02, 51-01-03, 51-01-03A, 51-01-04, and 51-01-09). This treatment system was deactivated in February 2000 and the hydrauger effluent rerouted to the Building 51 Fire Trail Treatment System.

- The *Building 51 Fire Trail Treatment System* was installed in 1992 on the fire trail east of Building 51 to treat groundwater from monitoring well MW90-5, which is extracted to control migration of the Building 71 VOC plume. Beginning in March 1996, groundwater extracted from MW58-95-18 near the downgradient edge of the southern lobe of the Old Town plume was also treated by the system. A groundwater collection trench was installed downgradient from MW58-95-18 during the first quarter of FY99 to more effectively control plume migration. The treatment system currently consists of two 1000-pound GAC canisters in series and treats contaminated groundwater pumped from collection trench extraction wells EW58-98-1 and EW58-98-2. In addition, effluent from hydraugers east of Building 51 with detectable concentrations of VOCs (hydraugers 51-01-01, 51-01-02, 51-01-03, 51-01-03A, 51-01-04, and 51-01-09) has been treated at this system since February 2000.

- In 1993, the *Building 37 Treatment System* was installed to treat VOC contaminated water from a drain (37-01-01) east of Building 37 and two wells near the site perimeter monitoring the Building 37 VOC Plume (MWP-7 and MW37-92-6). Extraction from MWP-7 and MW37-92-6 was halted on June 4, 2001 after concentrations of VOCs in both wells had remained been below MCLs for more than one year.

- In April 1993, the *Building 46 Treatment System* was installed to treat the water collected from the subdrain east of Building 46. The subdrain was installed in the early 1950's to collect water draining from the hillside for landslide mitigation purposes. Before 1993, the collected water was discharged to a catch basin, and then routed to the storm drain system that discharged to North Fork Strawberry Creek. In February 1993, VOCs were detected in water samples collected from the catch basin and the treatment system was therefore installed. The system previously consisted of two parallel sets of two 55-gallon GAC units in series. In August 2003, one of the sets was replaced by a series of two 1000-pound GAC canisters.

- In July 1996, the *Building 51 Motor Generator Room Discharge Sump Treatment System* was installed to treat the VOC-contaminated effluent from the Motor Generator Room discharge sump located in the basement of the Motor Generator Room in Building 51. The system consists of two 1000-pound GAC canisters in series. From the fourth quarter of FY00 until October 2003 when the Building 64 Treatment System was completed, the Building 51 system also treated groundwater from extraction well EW64-00-1, which was installed in the backfill of the source removal excavation for the Building 51/64 groundwater plume.

- In December 1996, the *Building 7 Collection Trench Groundwater Treatment System* was installed at the former location of Building 7B to treat VOC-contaminated water extracted from the Building 7 groundwater collection trench, as part of a soil flushing system. The system previously consisted of two 1000-pound GAC canisters in series, but was upgraded with a third 1000-pound canister in September 2003. The system also treats groundwater extracted from the Building 53/58 slope collection trench system, the collection trench at the southeast corner of Building 58, and other extraction wells in the Old Town Solvent Plume core area.

- In September 1998, the *Building 6 Treatment System* was installed on the east side of Building 6 as part of a dual phase groundwater and soil gas extraction and treatment system. The system consists of two 1000-pound GAC canisters in series. Groundwater extraction was started on September 18, 1998. Soil vapor extraction was started on October 20, 1998. The treated water has recently been used for soil flushing purposes.

- In February 2000, the *Building 51L Treatment System* was installed southwest of Building 51L to treat contaminated groundwater extracted from EW51L-99-1 and EW51L-00-1. The system consists of one 1000-pound GAC canister and one 55-gallon GAC unit in series. Since the third quarter of FY02, the system has also treated water extracted from the concrete sump installed immediately upgradient of the Building 51A storm drain catch basin. The sump collects contaminated water from the two drain lines that formerly flowed into the catch basin. Since January 2004, the system has also treated contaminated groundwater extracted from SB51A-01-8B, as part of a soil flushing system.

- In April 2002, the *Building 25A Treatment System* was installed west of Building 25A to treat contaminated groundwater extracted from the Building 25A collection trench, as part of a soil flushing system. The system consists of one 1000-pound GAC canister and one 55-gallon GAC unit in series. Groundwater extracted from MW 25A-98-3 is also treated by the system.

- In October 2003, the *Building 64 Treatment System* was completed east of Building 64 to treat contaminated groundwater extracted from the Building 64 collection trench, as part of a soil flushing system. The system consists of a 1,000-pound GAC canister with an in-line 55-gallon GAC drum as backup. The system also treats groundwater from extraction well EW64-00-1.

- In September 2004, the *Building 71B Treatment System* was completed south of Building 71B to treat contaminated groundwater extracted from MW71B-99-3R, SB71B-04-1, and SB71B-04-2, as part of a soil flushing system. The system consists of two 1,000-pound GAC canisters in series.

The following volumes of contaminated water have been treated by these systems:

Summary of Treatment Systems

Treatment System	Volume Treated Fourth quarter FY03 (gallons)	Total Volume Treated (gallons)	Discharge/Reuse
Building 6 Bioventing	109,400	1,880146	Sanitary sewer or recirculated
Building 7	559,034	5,691,374	Sanitary sewer or recirculated
Building 37	1,460	1,497,471	Makeup water for cooling tower
Building 46	371,716	13,080,804	Sanitary sewer or recirculated
Building 51 Firetrail	140,302	5,832,572	Sanitary sewer or recirculated
Building 51 Hydraugers*	0	9,482,665	
Building 51 Sump	38,537	2,771,577	Sanitary sewer
Building 51L	62,232	597,530	Sanitary sewer or recirculated
Building 25A	23,733	453,239	Recirculated
Building 64	101,924	212,333	Recirculated
Building 71B	5,460	5,460	Recirculated
Total Volume Treated	1,413,798	41,505,171	

*System no longer operational. Hydrauger effluent is now treated at Building 51 Firetrail Treatment System.

SECTION 7

UPCOMING REPORTING PERIOD ACTIVITIES

7.1 FIRST QUARTER FISCAL YEAR 2005 (OCTOBER 1 TO DECEMBER 31, 2004) ACTIVITIES

This section describes the activities that were completed during the first quarter of FY05, the upcoming reporting period. Results of these activities will be reported in the next Quarterly Progress Report, scheduled for submittal in May 2005.

Groundwater Investigations

First quarter fiscal year FY05 groundwater monitoring started on October 25, 2004 and was completed on November 23, 2004. The number of groundwater samples submitted for each type of analysis during the fourth quarter is shown in the following table:

Number of Groundwater Samples Collected During the First Quarter of FY05

	VOCs	TPH-K	PCBs	Metals	Tritium	Total
Monitoring Wells	85	2	2	1	35	125
Duplicates	5				3	8
Trip Blanks	2					2
Rinse Blanks	4				2	6
Slope Stability Wells	2					2
Temporary Groundwater Sampling Points	83			5	12	100
Extraction Wells	116					116

VOCs: Volatile Organic Compounds
TPH-K: Total Petroleum Hydrocarbons in the kerosene range
PCBs=Polychlorinated Biphenyls

Hydrogeological Investigations

Water Level Measurements

Depth-to-water was measured monthly in all groundwater monitoring wells.

Source Investigations

In order to assess whether the soil gas and/or indoor air contamination detected at Building 76 is derived from soil or groundwater contamination beneath the building, soil and groundwater samples are being collected from borings drilled inside the service bay area and immediately south of the building. Two of the planned temporary groundwater sampling points (SB76-04-1 and SB76-04-3) were constructed during the fourth quarter of FY04. Due to caving conditions, casing could only be installed to a depth of 25 feet in SB76-04-3 and the hole remained dry. During the first quarter of FY05, SB76-04-3 was deepened and new well casing was installed. Also during the first quarter of FY05 temporary groundwater sampling points SB76-04-2 and SB76-04-5 were installed. Groundwater samples were collected from temporary groundwater sampling points SB76-04-1, SB76-04-2, and SB76-04-5 and analyzed for VOCs. Soil samples collected at approximately 5-foot intervals from SB76-04-2, to a maximum depth of 5 feet at SB76-04-5, and at 1 and 3 feet bgs at boring location SB76-04-6 were analyzed for VOCs.

Interim Corrective Measures (ICMs) and Pilot Tests at Groundwater Units

Old Town Groundwater Solvent Plume (Building 7 lobe)

- Extraction and treatment of groundwater continued at the following locations:
  - Building 7 Groundwater Collection Trench
  - Building 58 West Groundwater Collection Trench
  - Building 58 Southeast Groundwater Collection Trench.
- Dual-phase (groundwater and soil vapor) extraction continued at the Building 53/58 Slope Groundwater Collection Trench.
- The in situ soil flushing pilot test in the upgradient core area of the Building 7 lobe of the Old Town Groundwater Solvent Plume continued.
- Monitoring of the thermally enhanced soil vapor extraction pilot test continued. The heaters were permanently turned off on November 1, 2004.

Old Town Groundwater Solvent Plume (Building 52 Lobe)

- Extraction and treatment of groundwater from the Building 46 subdrain continued.

- Activities associated with the in situ soil flushing pilot test in the Building 52 lobe of the Old Town Groundwater Solvent Plume continued. Two of the three groundwater extraction wells installed at the downgradient edge of the plume were replaced.

Old Town Groundwater Solvent Plume (Building 25A Lobe)

- Extraction, treatment, and recirculation of groundwater in the Building 25A Groundwater Solvent Plume source area continued.

Building 51/64 Groundwater Solvent Plume

- The in situ soil flushing pilot test in the Building 51/64 Groundwater Solvent Plume source area continued.

Building 71B Lobe of the Building 71 Solvent Plume Area

- During the first quarter of FY05, boring SB71B-04-3 was drilled adjacent to the drain box east of the concrete deck on the south side of Building 71B. The purpose of the boring is to provide additional flushing in the Building 71B lobe source area by increasing the infiltration of water. A 2-inch PVC casing was installed in 71B-04-3 and the annulus was backfilled to the surface with drain rock.

- Post-injection groundwater sampling continued to monitor the performance of the in situ chemical oxidation pilot test in the source area and the HRC pilot test in the core area.

- Baseline groundwater samples were collected in preparation of an HRC injection pilot test in the source area. HRC injection was started in December 2004.

Building 51L Groundwater Solvent Plume

- Operation of the groundwater extraction and treatment system continued.
- The in-situ soil flushing pilot test in the Building 51A/51L area continued.

Building 75/75A Area of Groundwater Contamination

- Post-injection groundwater sampling continued to monitor the performance of the HRC pilot test.

Interim Corrective Measures (ICMs) for Contaminated Drain Lines

Building 71 Groundwater Solvent Plume

- Operation of the Building 51 Fire Trail Treatment System continued. The system treats effluent from hydraugers east of Building 51 that contain detectable concentrations of VOCs.

Building 51 Motor Generator Room Discharge Sump Treatment System

- Extraction and treatment of contaminated water from the Building 51 drainage system continued.

Building 51A Catch Basin (Building 51 Subdrains)

- Extraction and treatment of water from the concrete sump installed immediately upgradient of the Building 51A storm drain catch basin continued. The sump collects contaminated water from the two drain lines that formerly flowed into the catch basin.

Other Activities

Reports

- On October 18, 2004, LBNL submitted responses to comments on *Draft* Corrective Measures Study Report to the DTSC.

- On November 30, 2004, LBNL submitted the Quarterly Progress Report for the Second Quarter of FY04 to the DTSC, in compliance with LBNL's RCRA Part B Permit.

- On November 15, 2004, LBNL submitted responses to City of Berkeley comments on *Draft* Corrective Measures Study Report to the DTSC.

- On December 8, 2004, LBNL submitted geologic maps and cross sections to the RWQCB in response to their comments on the *Draft* Corrective Measures Study Report.

Meetings

- Remedial Project Managers meetings were held at the DTSC offices on October 14, November 18, 2004, and December 9, 2004. Representatives of the DTSC, RWQCB, City of Berkeley, DOE, and LBNL attended all meetings, except for the December meeting at which an RWQCB representative was not present.

- The Semi-Annual Review Meeting with the regulatory agencies was held on October 27, 2004. Attendees included representatives from the DTSC, RWQCB, City of Berkeley, City of Oakland, DOE, UC Office of the President, and LBNL. A summary of field activities conducted during the third and fourth quarters of FY04 was presented.

Community Relations

- Iraj Javandel gave a public presentation on corrective measures proposed for LBNL in the Draft Corrective Measures Study Report prior to the Berkeley Community Environmental Advisory Commission (CEAC) meeting on December 2, 2004.

7.2 PLANNED ACTIVITIES

Following is a list of activities planned for the second quarter of FY05 (January 1 to March 31, 2005):

<u>Ongoing ICMs and Pilot Tests at Groundwater Units</u>

Continue soil-flushing activities at the following locations:

- Source area of the Building 52 lobe of the Old Town solvent plume.
- Source area of the Building 25A lobe of the Old Town solvent plume.
- Source area of the Building 51/64 solvent plume.
- Source area of Building 71B lobe of building 71 solvent plume.
- Building 51A/51L area.

Continue groundwater extraction and treatment at the locations listed below. The purpose of extraction is to control plume migration. The treated groundwater will be used for soil flushing at locations listed in the previous paragraph or disposed of in the sanitary sewer in accordance with conditions of LBNL's wastewater discharge permit.

- Building 7 Groundwater Collection Trench.
- Building 58 West Groundwater Collection Trench.
- Building 58 Southeast Groundwater Collection Trench.
- Building 46 subdrain.
- Building 51L area extraction wells.
- Building 53/58 Slope Groundwater Collection Trench (groundwater and soil vapor extraction system).

Continue monitoring the following pilot tests:

- Building 7 lobe source area thermally enhanced soil vapor extraction pilot test.
- Building 71B lobe source area HRC pilot test (continue HRC injection).
- Building 71B lobe source area in situ chemical oxidation pilot test.
- Building 71B lobe core area HRC pilot test.
- Building 75/75B area of groundwater contamination HRC pilot test.

Continue operation of the dual phase (groundwater and soil gas) extraction and treatment system for the Building 7E Diesel Plume.

Ongoing ICMs for Contaminated Drain Lines

Continue the following ICMs:

- Treatment of contaminated hydrauger effluent at the Building 51 Fire Trail Treatment System
- Extraction and treatment of contaminated water from the Building 51 drainage system
- Extraction and treatment of contaminated water from the concrete sump upgradient from the Building 51A catch basin.

Other Planned Activities

Other activities planned for the second quarter of FY05 include:

- Submit the revised Draft CMS Report to the DTSC.
- Submit the Quarterly Progress Reports for the fourth quarter of FY04 to the DTSC.
- Conduct quarterly groundwater sampling.
- Begin HRC pilot test in Building 51/64 Groundwater Solvent Plume core area.
- Destroy the thermally enhanced soil vapor extraction pilot heater well HW7-00-2.

SECTION 8

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Figure 12a. Concentration Trends for Halogenated Non-Aromatic VOCs (excluding Freon compounds, Chloroform, and Bromodichloromethane) in Selected Wells Monitoring the Building 71 Solvent Plume (Building 71 Lobe).

Figure 12b. Concentration Trends for Halogenated Non-Aromatic VOCs (excluding Freon compounds, Chloroform and Bromodichloromethane) in Selected Wells Monitoring Building 71 Solvent Plume (Building 71B Lobe).

Figure 13. Concentration Trends for Freon-113 in Selected Wells Monitoring the Building 71 Freon Plume.

Figure 14. Isoconcentration Contour Map, Total Halogenated Hydrocarbons in Groundwater, Source Area for Building 51/64 Plume, Fourth Quarter FY2004.

Figure 15a. Concentration of Halogenated VOCs (excluding Freon compounds) in Selected Wells Monitoring the Source and Core Areas of the Building 51/64 Groundwater Solvent Plume.

Figure 15b. Concentration of Halogenated VOCs (excluding Freon compounds) in Selected Wells Monitoring the Crossgradient and Downgradient Areas of the Building 51/64 Groundwater Solvent Plume.

Figure 16. Isoconcentration Contour Map, Total Halogenated Hydrocarbons in Groundwater in Fill, Building 51L Solvent Plume, Fourth Quarter FY2004.

Figure 17. Total Halogenated Non-Aromatic VOC Concentrations in Wells Monitoring the Building 51L Solvent Plume.

Figure 18. Total Halogenated Hydrocarbons in Groundwater (µg/L) in the Old Town Area, Fourth Quarter FY2004.

Figure 19. Total Halogenated Hydrocarbons in Groundwater (µg/L) in the Source Area for the Old Town Plume, Fourth Quarter FY2004.

Figure 20. Water Level Elevation Map of the Old Town Area, Fourth Quarter FY2004.

Figure 21a. Concentration Trends for Total Halogenated VOCs in Wells Located Near Source of the Old Town Plume (Building 7 Lobe).

Figure 21b. Concentration Trends for Total Halogenated VOCs in Wells Located Near Source of the Old Town Plume (Building 7 Lobe).

Figure 21c. Concentration Trends for Total Halogenated VOCs in Wells Located in the Plume Core Portion of the Old Town Plume (Building 7 Lobe).

Figure 21d. Concentration Trends for Total Halogenated VOCs in Wells Located in the Downgradient Portion of the Old Town Plume (Building 7 Lobe).

Figure 21e. Concentration Trends for Total Halogenated VOCs in Well 7B-95-21 Located Near Source of the Old Town Plume (Building 7 Lobe).

Figure 22. Total Halogenated Non-Aromatic VOC Concentrations in Wells Monitoring the Old Town Plume (Building 52 Lobe).

Figure 23. Concentration Trends for Total Halogenated VOCs in Wells Within the Old Town Solvent Plume (Building 25A Lobe).

Figure 24. Concentration Trends for Total Halogenated VOCs in Wells Monitoring the Building 37 Plume.

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Figure 26. Water Level Elevation Map of the Support Services Area, Fourth Quarter FY2004.

Figure 27. Concentration Trends for Halogenated Non-Aromatic VOCs in Wells Monitoring the Building 76 Solvent Plume.

Figure 28a. Concentration Trends for Halogenated Non-Aromatic VOCs in Wells Monitoring the Support Services Area (excluding Building 76 Solvent Plume).

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Figure 31. Concentration Trends for TPH-D in Wells Monitoring the Building 74 Diesel Plume.

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Figure 36. Tritium Concentrations in Wells Monitoring the Building 71 Tritium Plume.

Figure 37. Concentrations of Total VOCs Detected in EW7-03-1, EW7-03-2, and EW7-03-3, Building 7 Lobe Soil Flushing Pilot Test.

Figure 38. Concentrations of Total VOCs Detected in MW91-8 and MW53-93-9, Building 52 Lobe In Situ Soil Flushing Pilot Test.

Figure 39. Concentrations of Total VOCs Detected in MW25A-98-1, MW25A-98-3, and MW25A-98-7.

Figure 40. Concentrations of Tetrachloroethene (PCE) Detected (mg/kg) in Soil Samples, Building 71B Lobe Source Area.

Figure 41. Concentrations of VOCs Detected in Groundwater, Building 71B HRC Pilot Test.

MW25-95-5	Groundwater monitoring well
MW90-6	Properly destroyed monitoring well
T SB76-97-3	Temporary groundwater sampling point
T SB64-98-16	Properly destroyed sampling point
EW EW	Groundwater extraction well
IW	Groundwater injection well
DP	Dual phase extraction well
SSW-31.63	Slope stability well
SI-3.63	Slope indicator well
71-95-10 or VZM-OT-1	Vadose zone monitoring well
SG-76W-7	Soil gas probe
	Shallow soil sampling location
	Soil boring
	Angled soil boring
L-3	Vacuum lysimeter
	Shallow soil-gas sampling location
7-95-1	Soil-gas monitoring well
PZ51-92-3	Piezometer
	Groundwater monitoring point
	Spring

LT	Less than reporting limit
ND (or <)	Not detected
NS	Not sampled
NA	Not analyzed
grab or g	Grab sample
Dup	Duplicated sample
51-01-10	Hydrauger
	Sanitary sewer line
	Storm drain line
	Surface creek
A A'	Cross section
	LBNL site boundary
	Fence
B 17	Surface structure (e.g. buildings, etc.)

700	Topographic contour line (elevation in ft above mean sea level)
700	Water level contour line (elevation in ft above mean sea level)
746.53	Water level elevation (ft above mean sea level)
	Area of groundwater contamination

NOTES:
All other symbols used are explained on the figures.
Not all symbols may be included on the attached figures for the current reporting period.

Symbols.ai
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Key to Symbols Used on Figures.

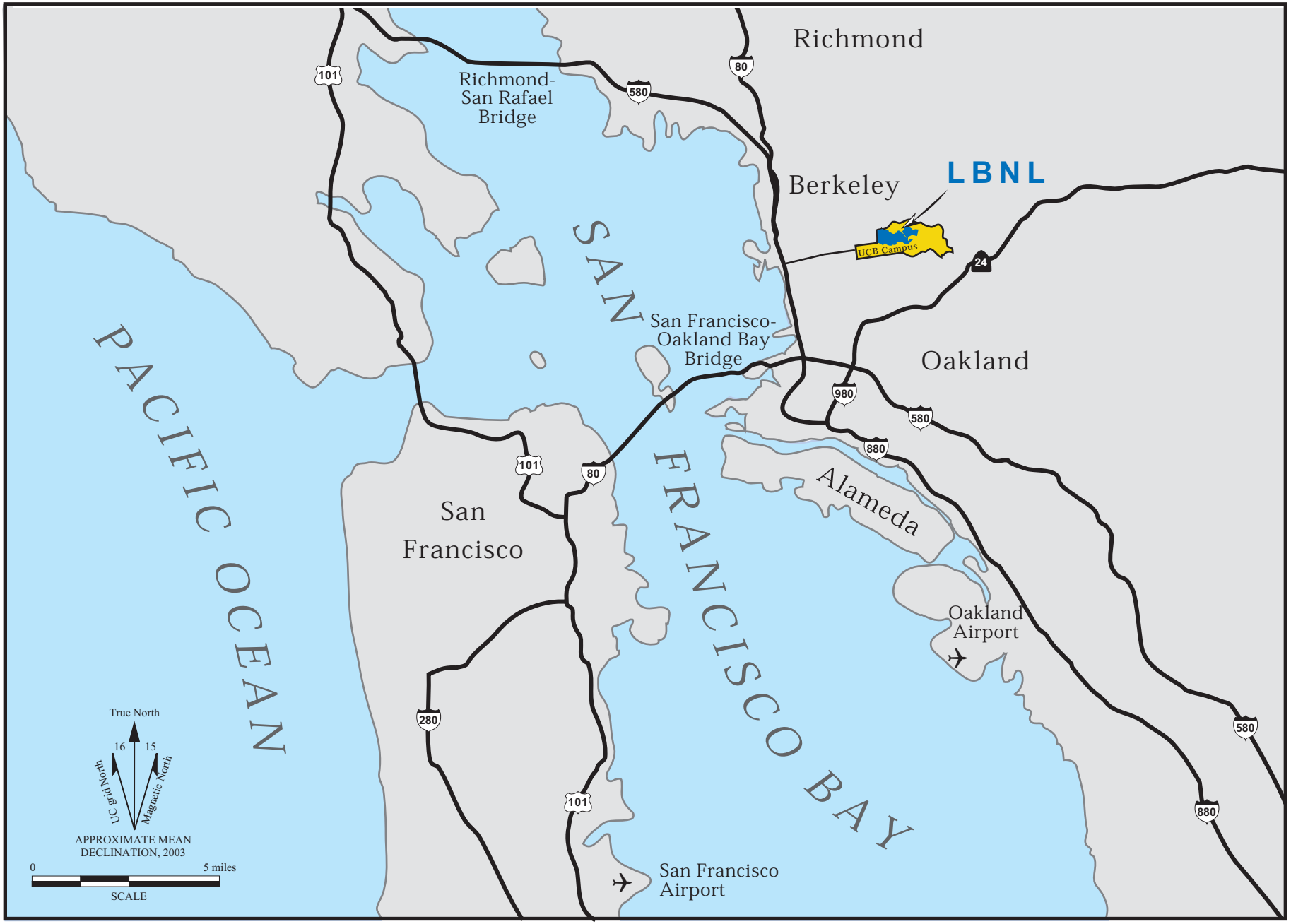

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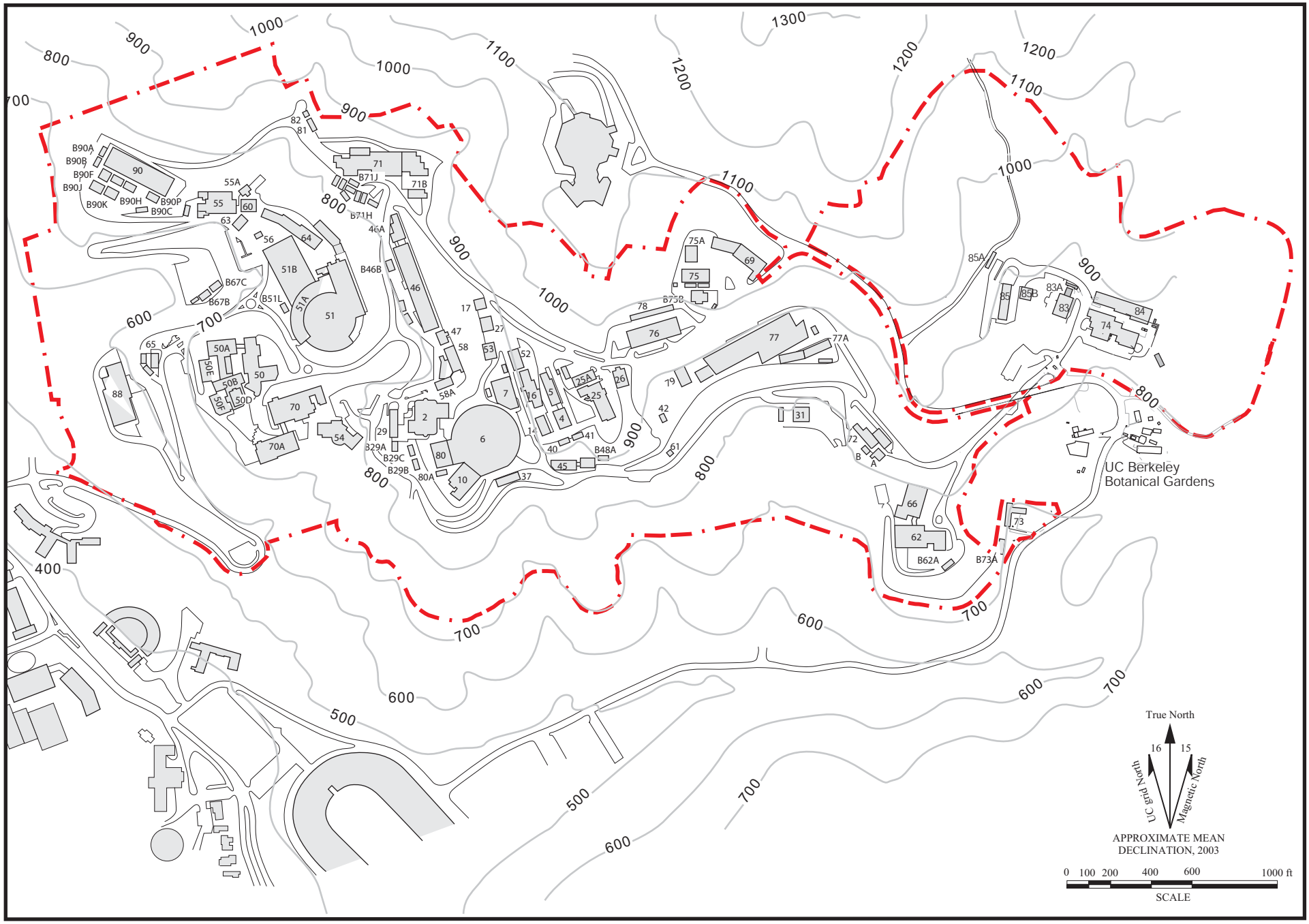
Figure 1. Regional Setting of the Lawrence Berkeley National Laboratory (LBNL).



02_sitemap.ai
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Figure 2. Site Map and Topography, Lawrence Berkeley National Laboratory (LBNL).

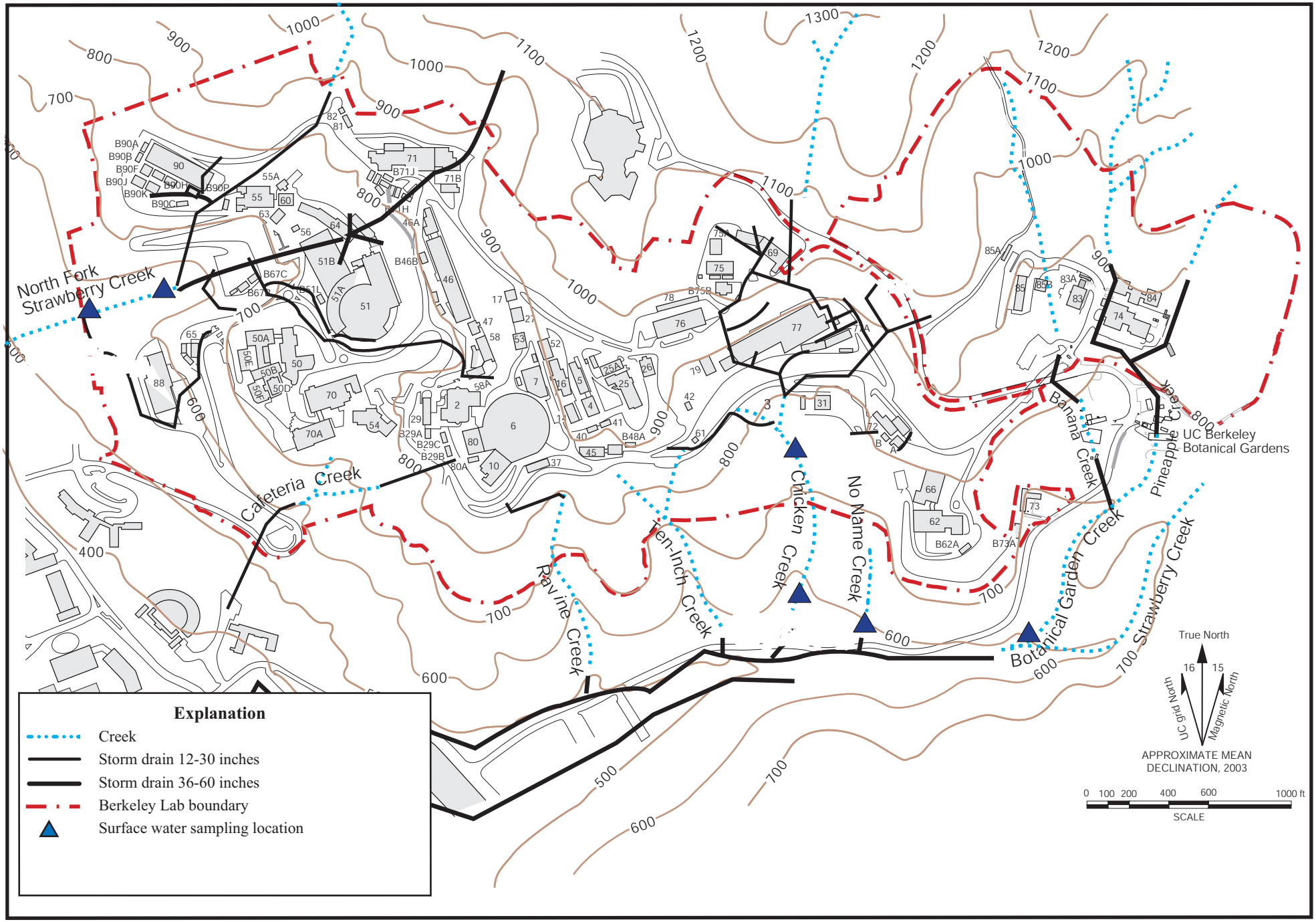

Figure 3. Locations of Creeks and Surface Water Sampling Locations, Fourth Quarter FY04.

3-surfacewatertritium.ai
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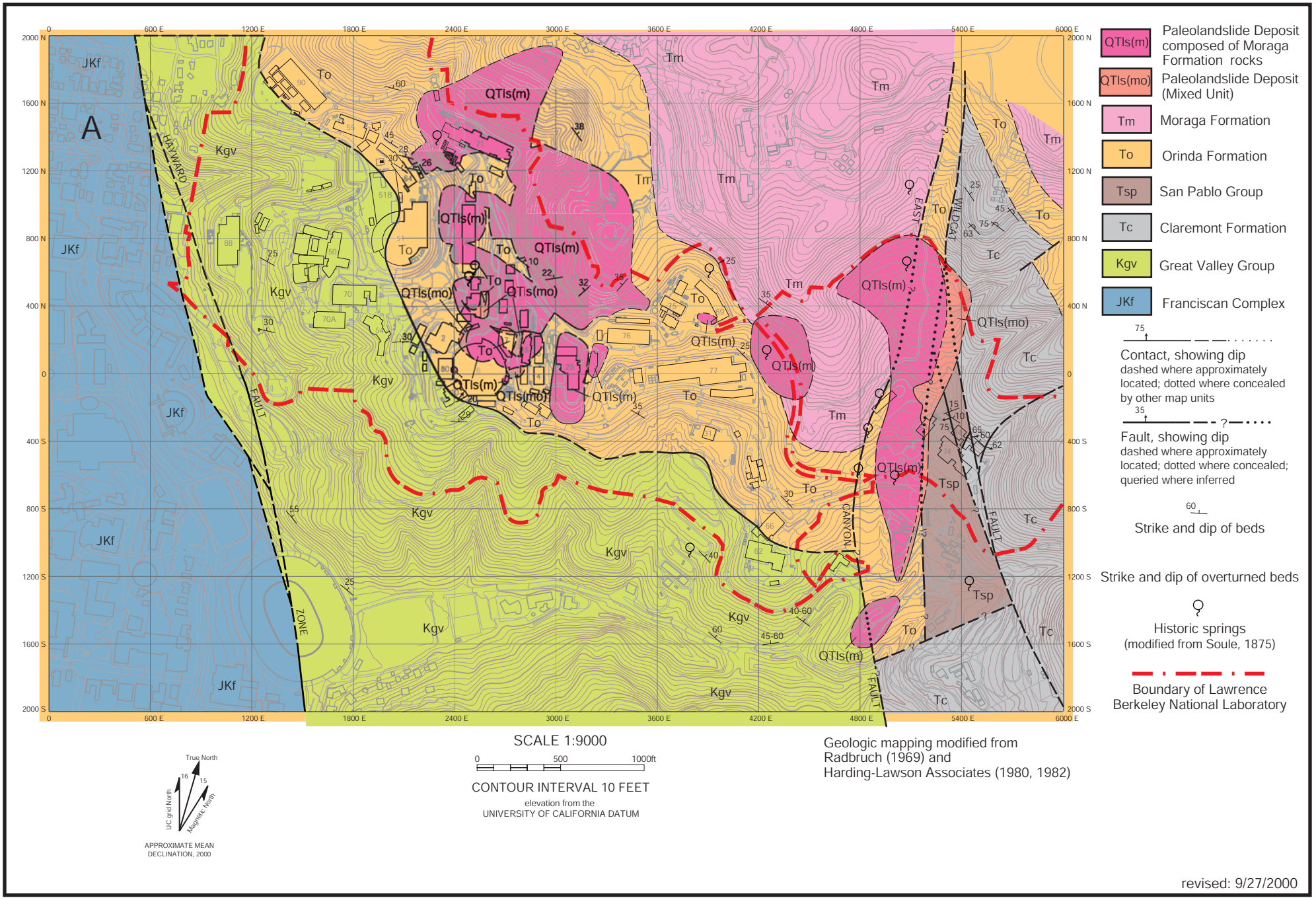

Figure 4a. Bedrock Geologic Map, Lawrence Berkeley National Laboratory.

4A site br map.ai
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Age	Formation	Description
Quaternary	Artificial fill	Generally engineered fill consisting of fine-grained material. Older fills include vegetative and other debris.
	Colluvium	Predominantly clayey silt.
	Debris flows	Boulders and gravels of basalt, chert, and porcelenite in a silty clay matrix.
	Landslides	Translational/rotational slide masses incorporating bedrock. Occur at the Moraga/Orinda Formation contact.

	WEST OF HAYWARD FAULT	EAST OF HAYWARD FAULT					
		West of Life Sciences Area Main Canyon Landslide Deposit			*East of Life Sciences Area Main Canyon Landslide Deposit*		
Age		**Group**	**Formation**	**Description**	**Group**	**Formation**	**Description**
Tertiary		Contra Costa	Moraga	Andesitic flows, breccias, and agglomerates with minor amounts of basaltic flows and interbedded volcaniclastic sandstone and conglomerate.	San Pablo (?)	Neroly	Fossiliferous, shallow marine, fine grained sandstones with minor amounts of siltstone.
			Orinda	Alluvial sedimentary deposits consisting primarily of claystone and siltstone with lenticular to linear beds of sandstone and conglomerate.		Briones	Fossiliferous, shallow marine, fine grained sandstones with minor amounts of siltstone.
					Monterey	Claremont	Chert and shale with minor amounts of sandstone.
Cretaceous		Great Valley		Marine mudstones, shales, and sandstones.			
Jurassic	Franciscan Complex						

Figure 4b. Stratigraphic Correlation Chart, Lawrence Berkeley National Laboratory.

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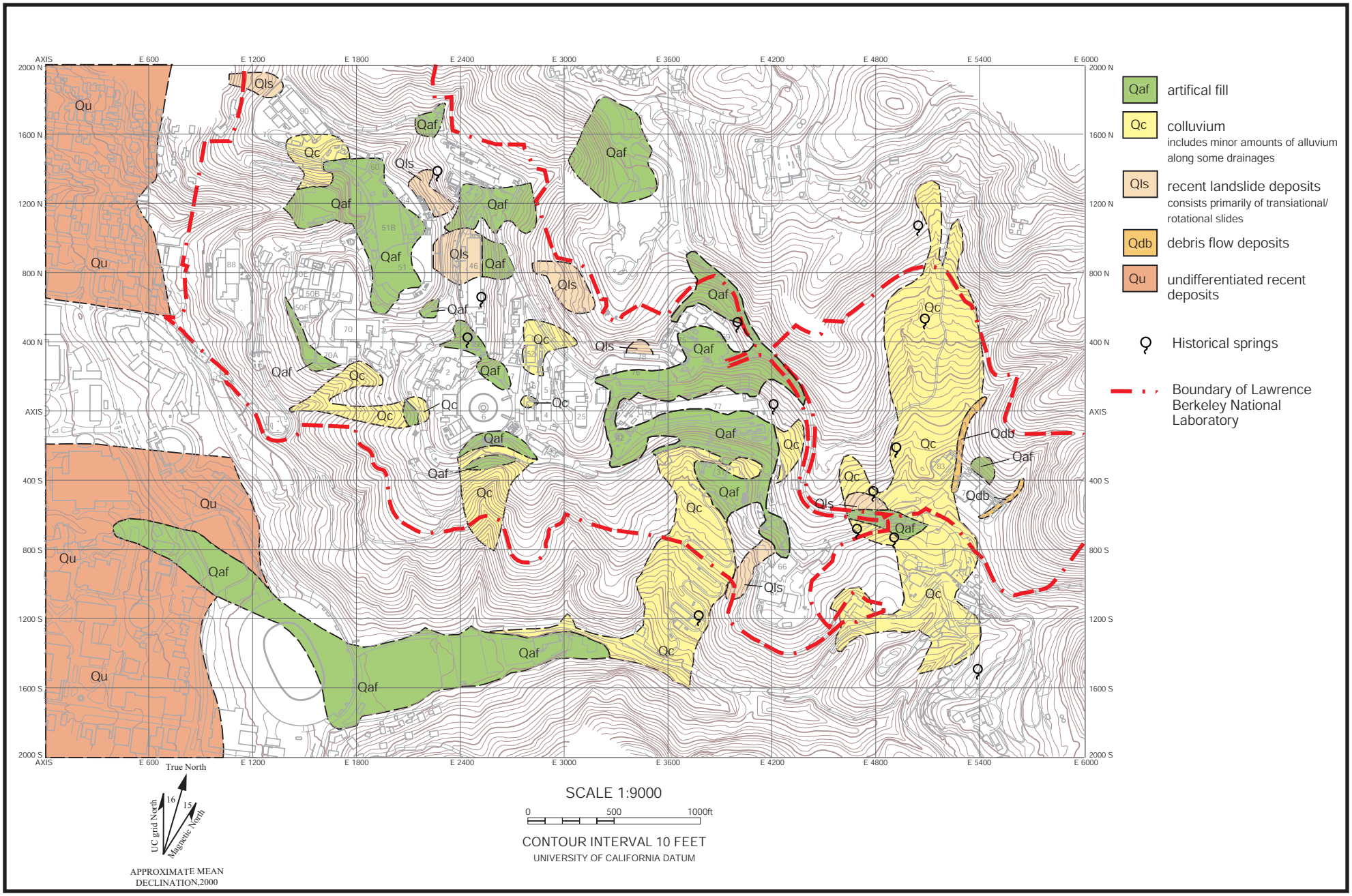

Figure 4c. Surficial Geologic Map, Lawrence Berkeley National Laboratory (modified from Harding-Lawson Associates, 1982).

A2.1-3 site surf map.ai
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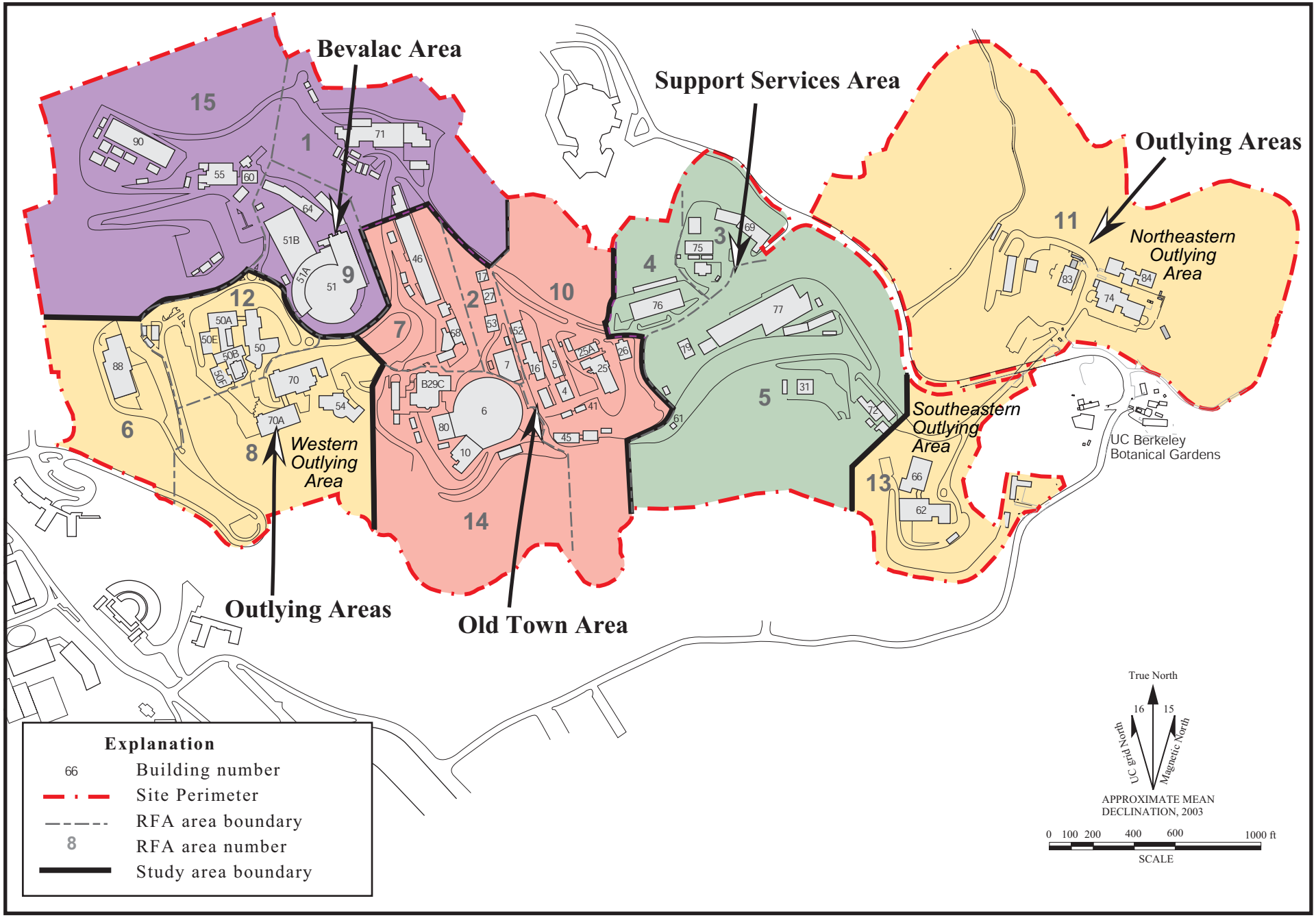

5-study areas.ai
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Figure 5. Locations of Study Areas, Lawrence Berkeley National Laboratory.

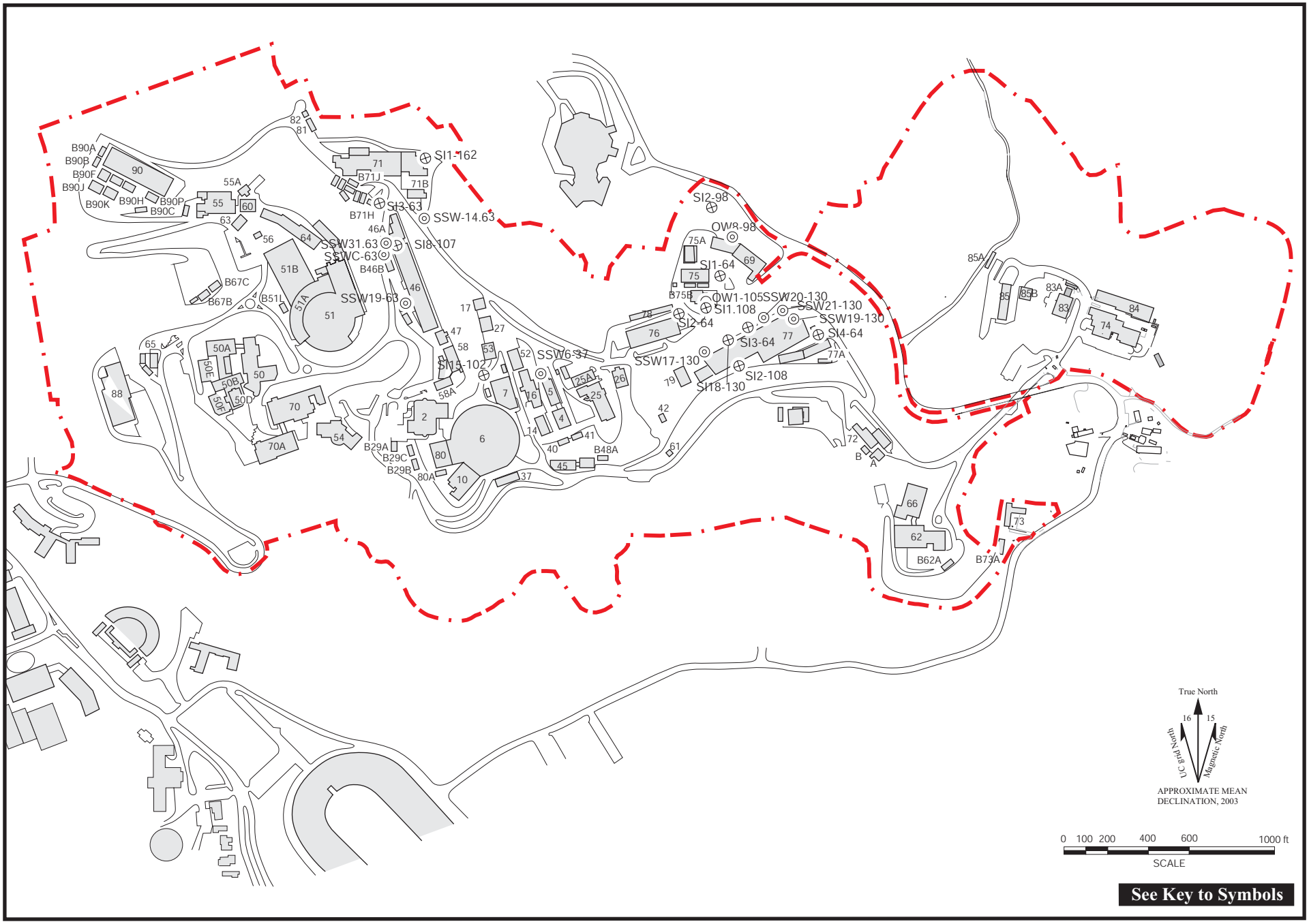

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Figure 6. Slope Stability, Slope Indicator, and Observation Well Locations, Lawrence Berkeley National Laboratory (LBNL)

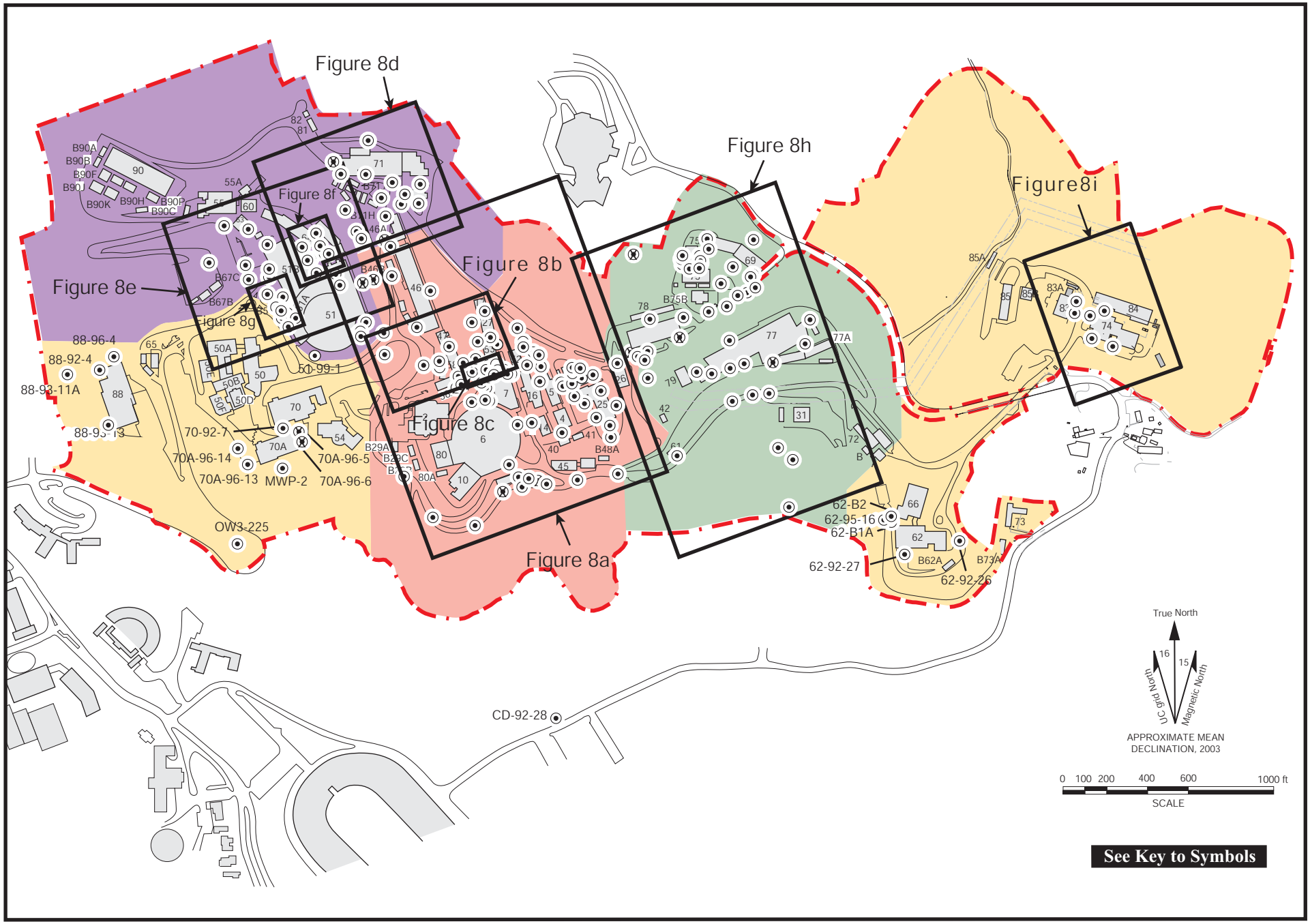

Figure 7. Monitoring Well Locations at Lawrence Berkeley National Laboratory.

7-well_locmap.ai
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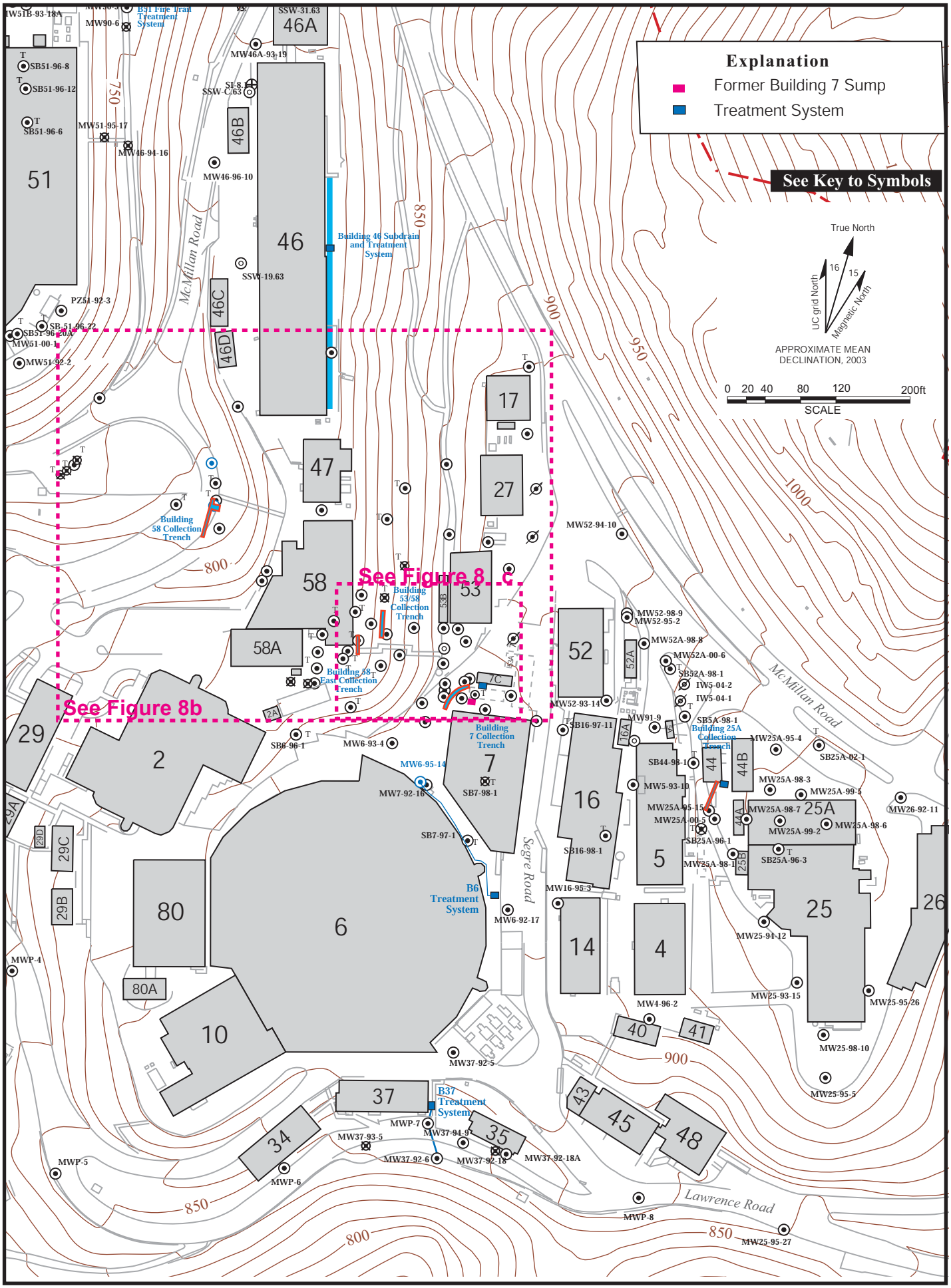

Figure 8a. Well Location Map of Old Town Area, Lawrence Berkeley National Laboratory

8a-well_l4locOT.ai
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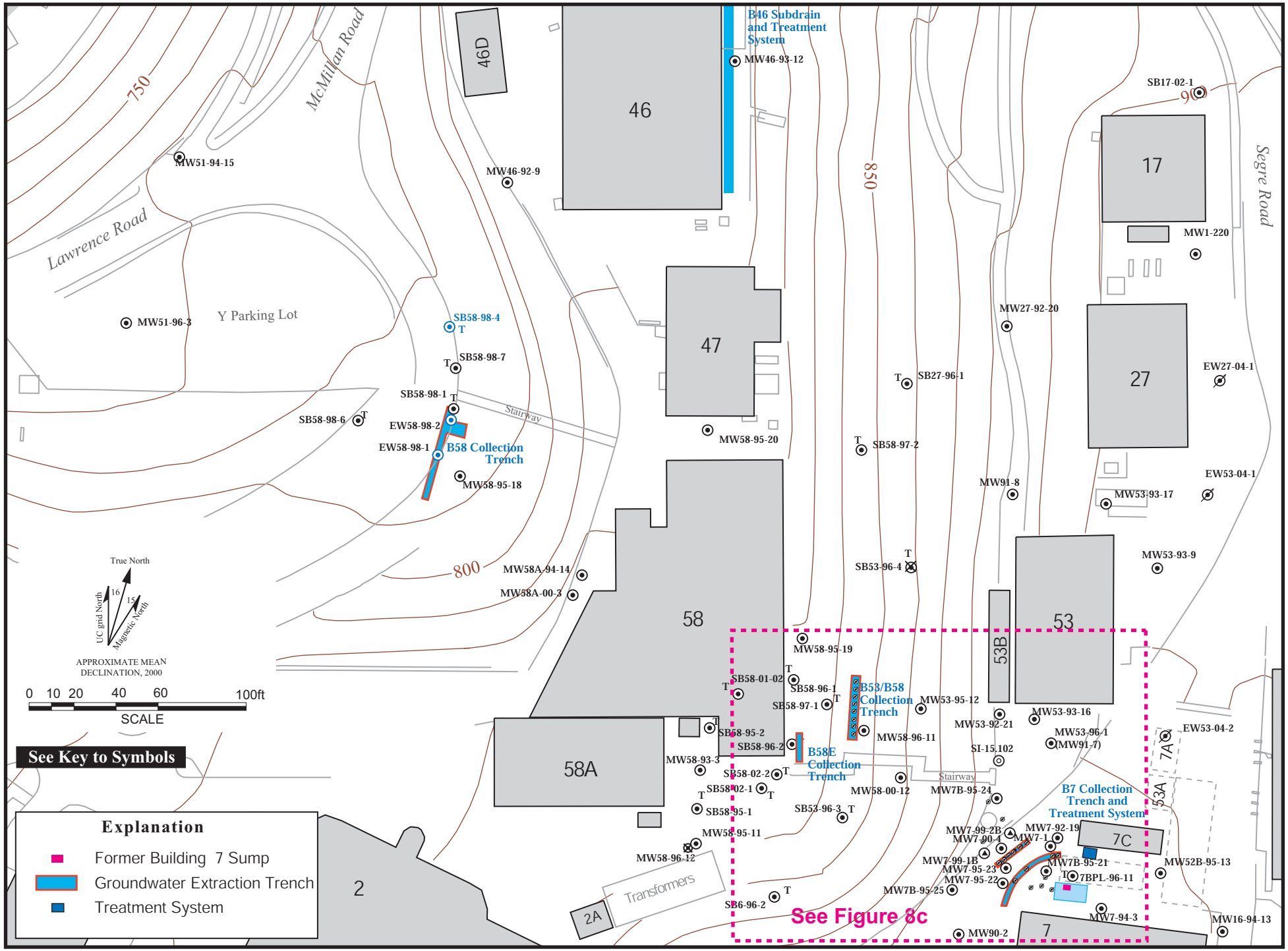

Figure 8b. Well Location Map of the Central Old Town Area, Lawrence Berkeley National Laboratory.

08b-OTDetail.ai
11/04

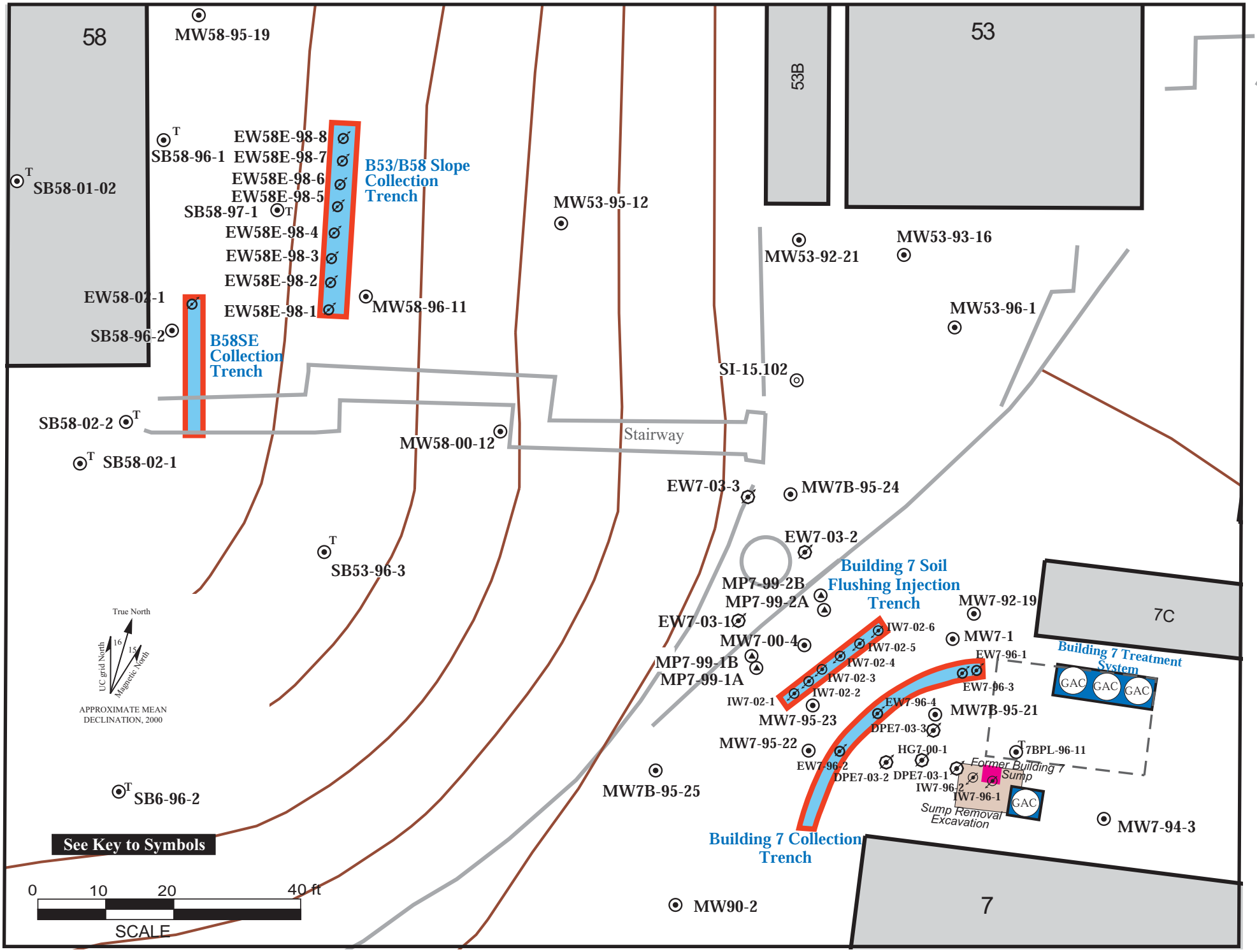

Figure 8c. Well Location Map of the Old Town Plume Source Area, Lawrence Berkeley National Laboratory.

68c-OTsumparea.ai
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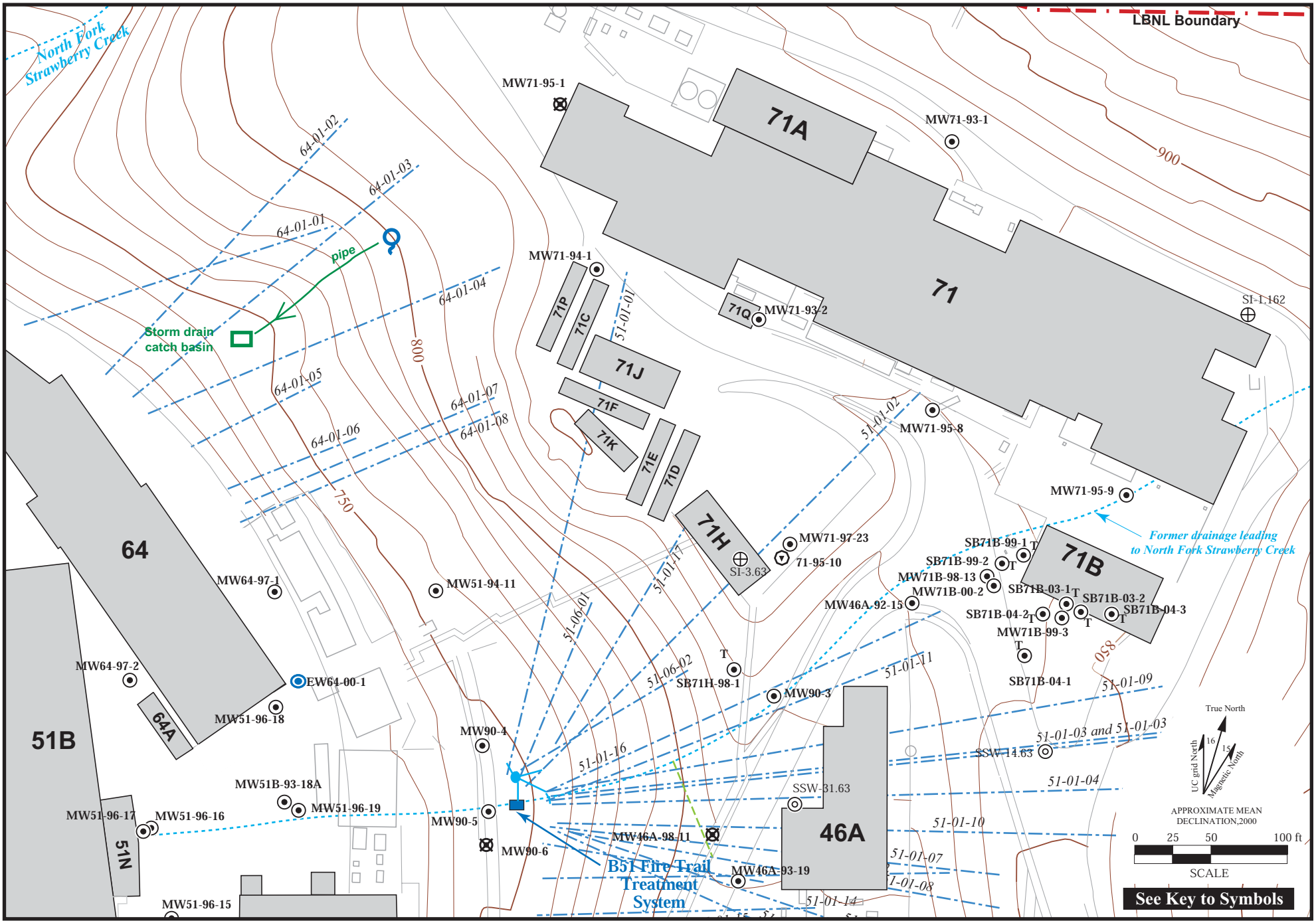

Figure 8d. Well Location Map of the Building 71 Area, Lawrence Berkeley National Laboratory.

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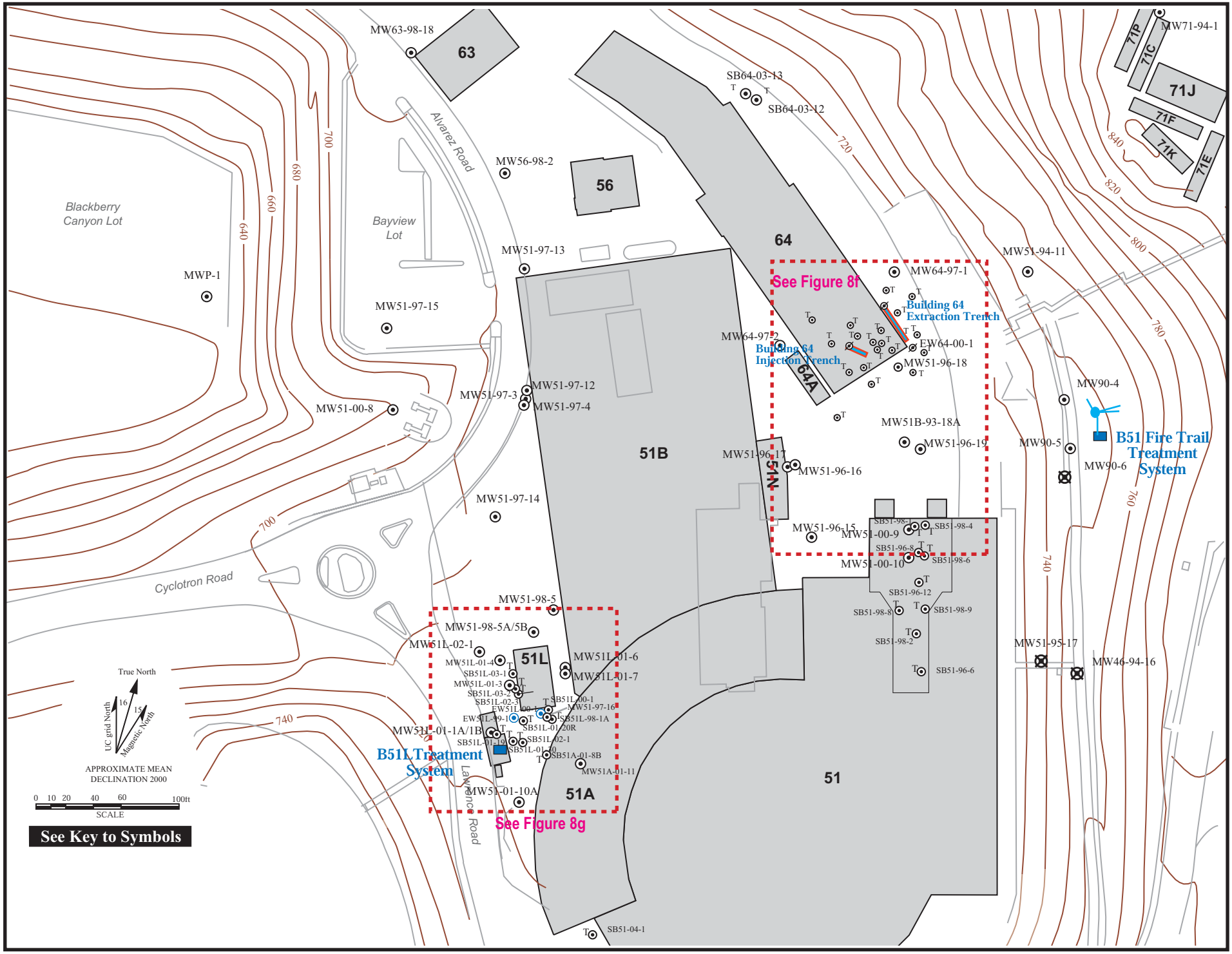

Figure 8e. Well Location Map of the Building 51 and Building 64 Area, Lawrence Berkeley National Laboratory.

08e-B51base.ai
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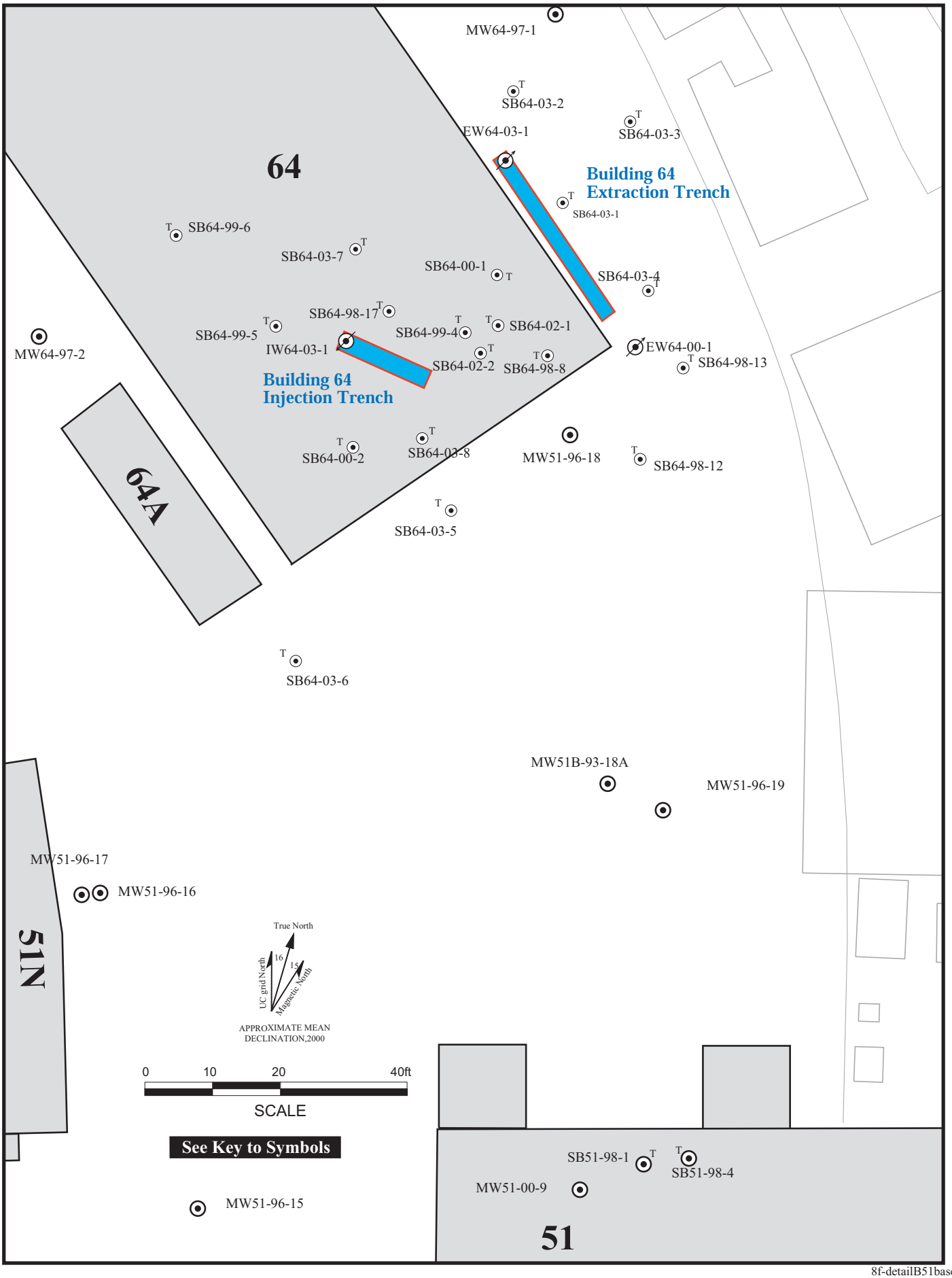

8f-detailB51base.ai
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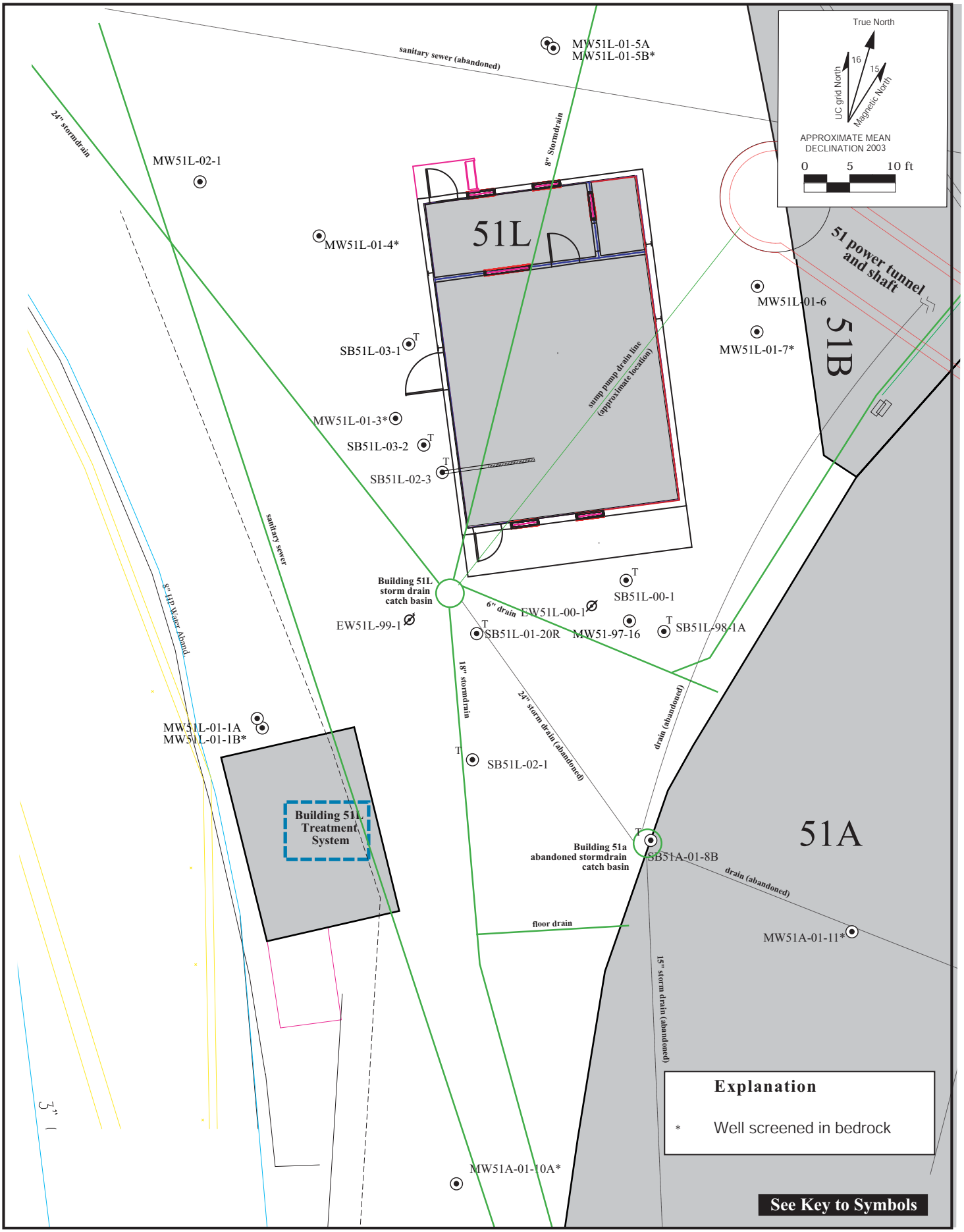
Figure 8f. Detailed Base Map of the Building 51/64 Area, Lawrence Berkeley National Laboratory.



8g-B51L.ai
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Figure 8g. Well Location Map of the Building 51L Area, Lawrence Berkeley National Laboratory.

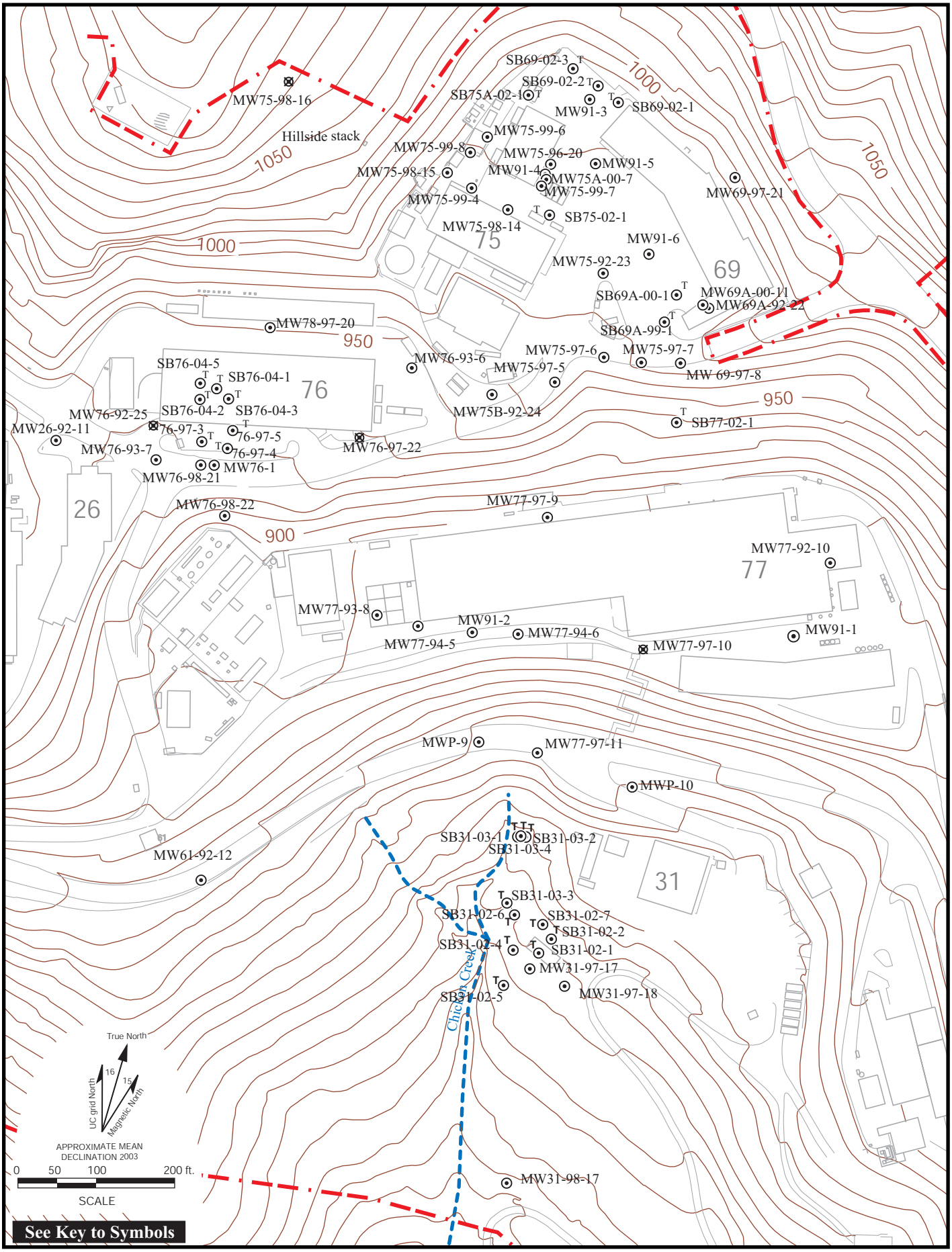

Figure 8h. Well Location Map of the Corporation Yard Area, Lawrence Berkeley National Laboratory.

08h-Corpyrdloc.ai
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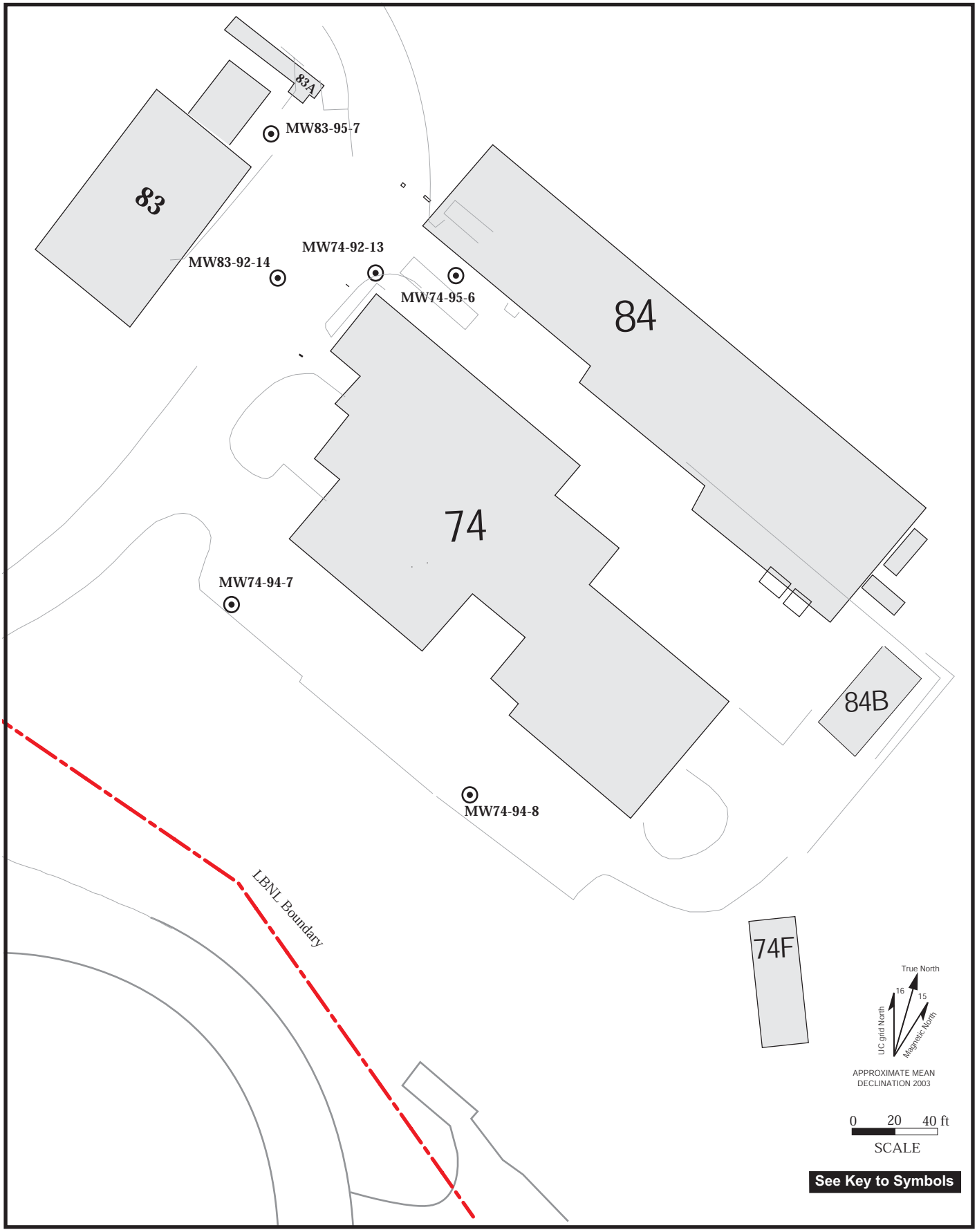

08i-b74 well locations.ai
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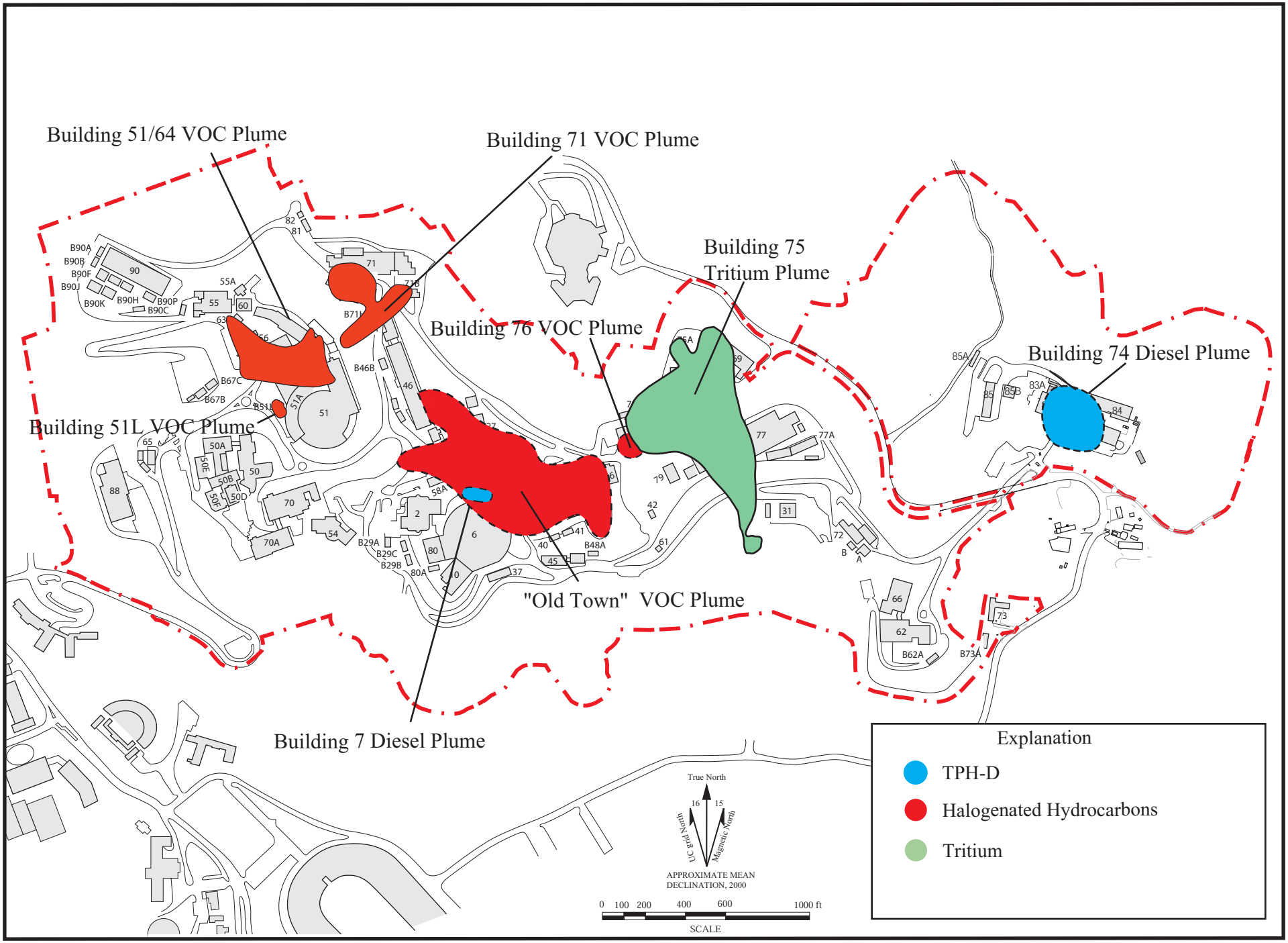
Figure 8i. Well Location Map of the Building 74 Area, Lawrence Berkeley National Laboratory



9-plumes.ai
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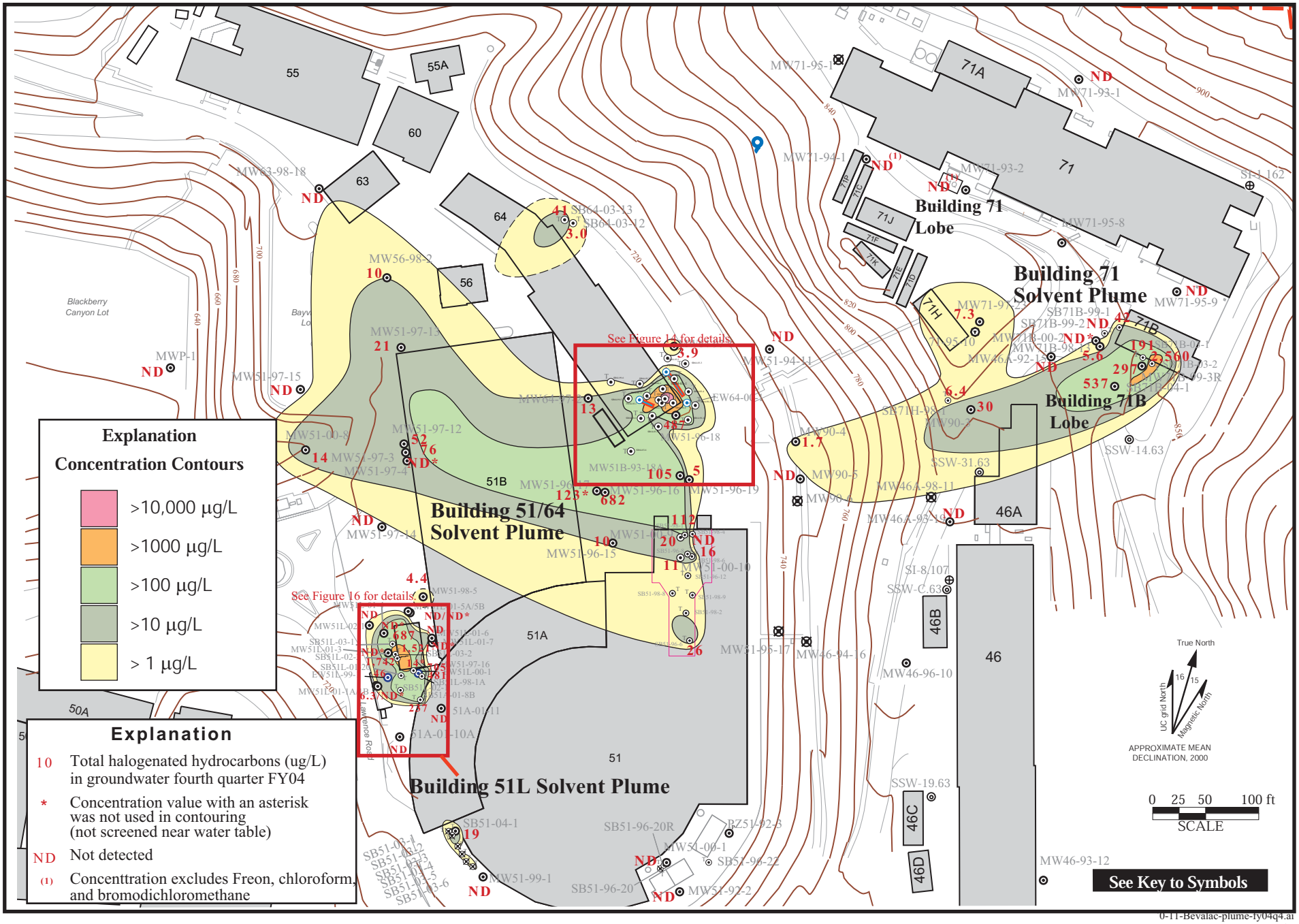
Figure 9. Groundwater Contamination Plumes, Fourth Quarter FY04.



0-11-Bevalac-plume-fy04q4.ai
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Figure 10. Isoconcentration Contour Map, Total Halogenated Hydrocarbons in Groundwater in the Bevalac Area, Fourth Quarter FY04.

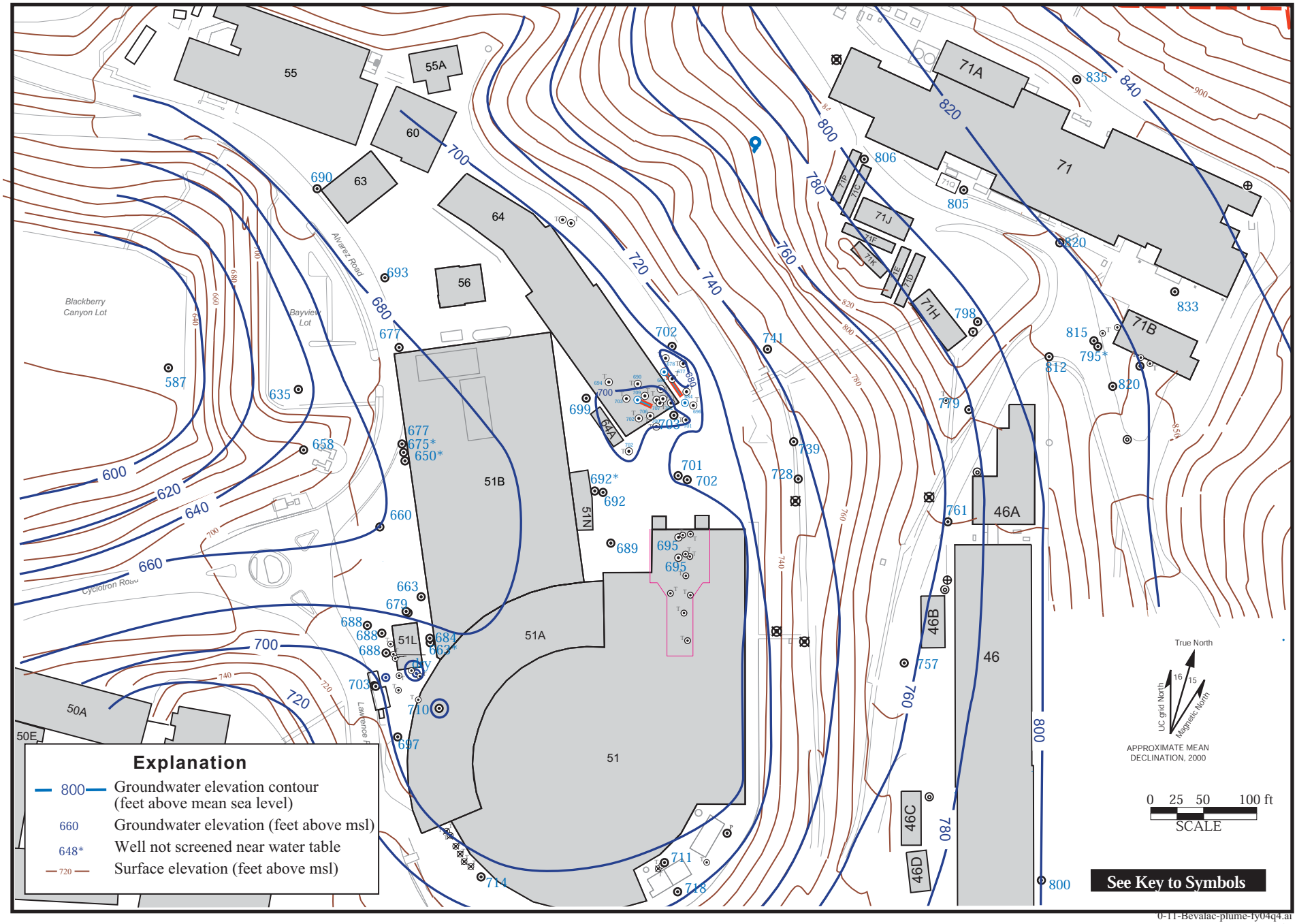

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Figure 11. Water Level Elevation Map in the Bevalac Area, Fourth Quarter FY2004.

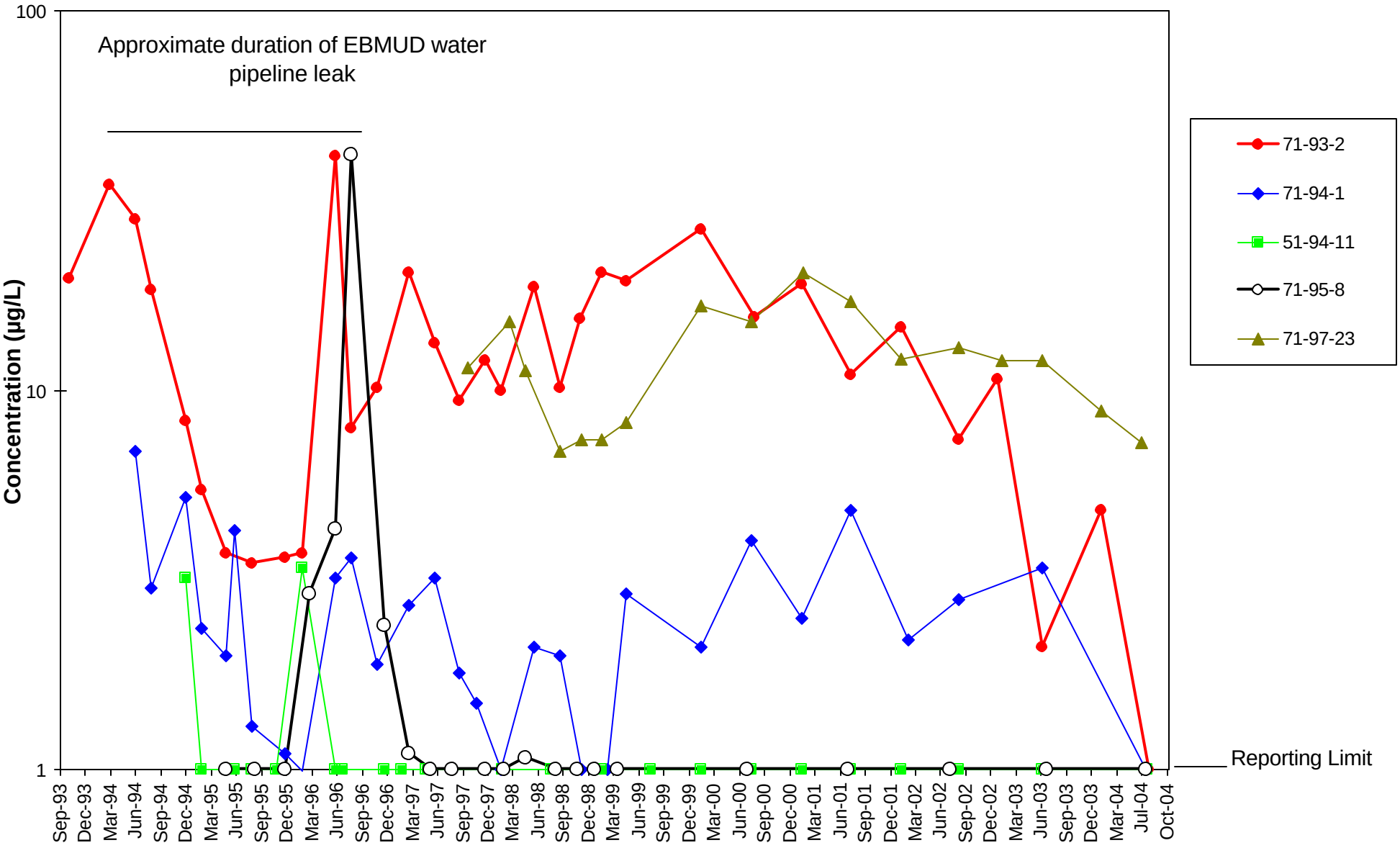

Figure 12a. Concentration Trends for Halogenated Non-Aromatic VOCs (excluding Freon compounds, Chloroform, and Bromodichloromethane) in Selected Wells Monitoring the Building 71 Solvent Plume (Building 71 Lobe).

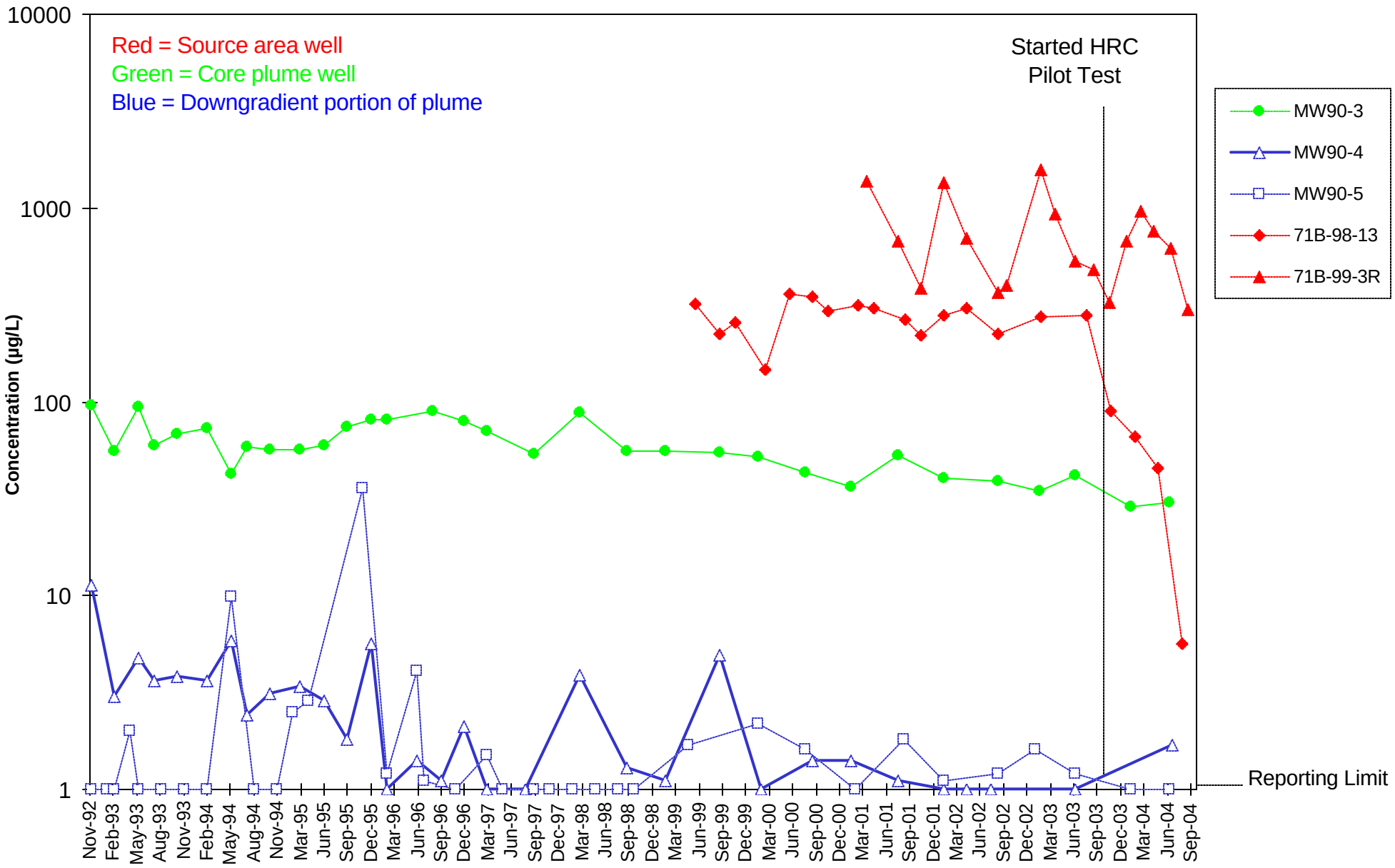

Figure 12b. Concentration Trends for Halogenated Non-Aromatic VOCs (excluding Freon compounds, Chloroform, and Bromodichloromethane) in Selected Wells Monitoring Building 71 Groundwater Solvent Plume (Building 71B Lobe)

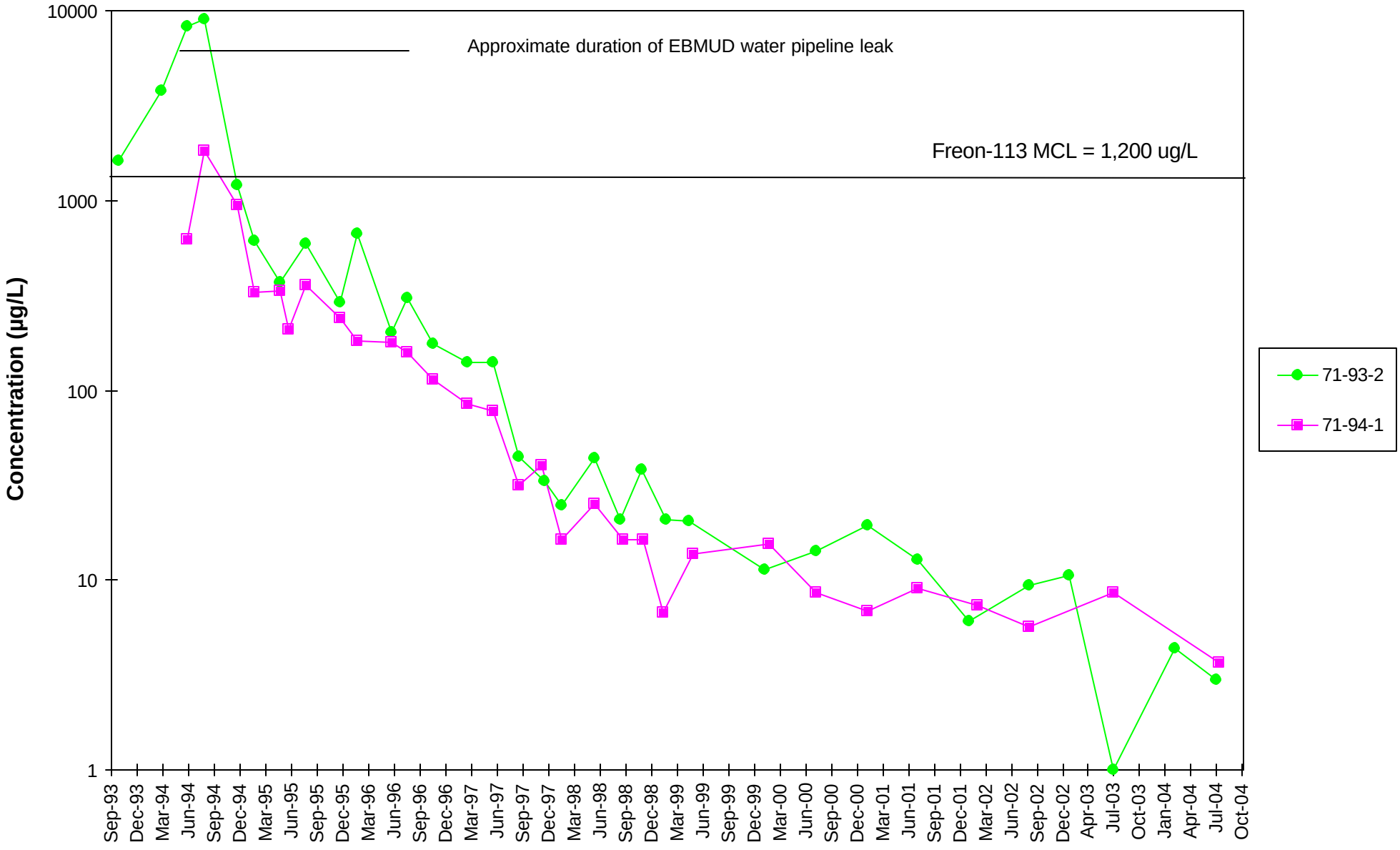

Figure 13. Concentration Trends for Freon-113 in Selected Wells Monitoring the Building 71 Freon Plume

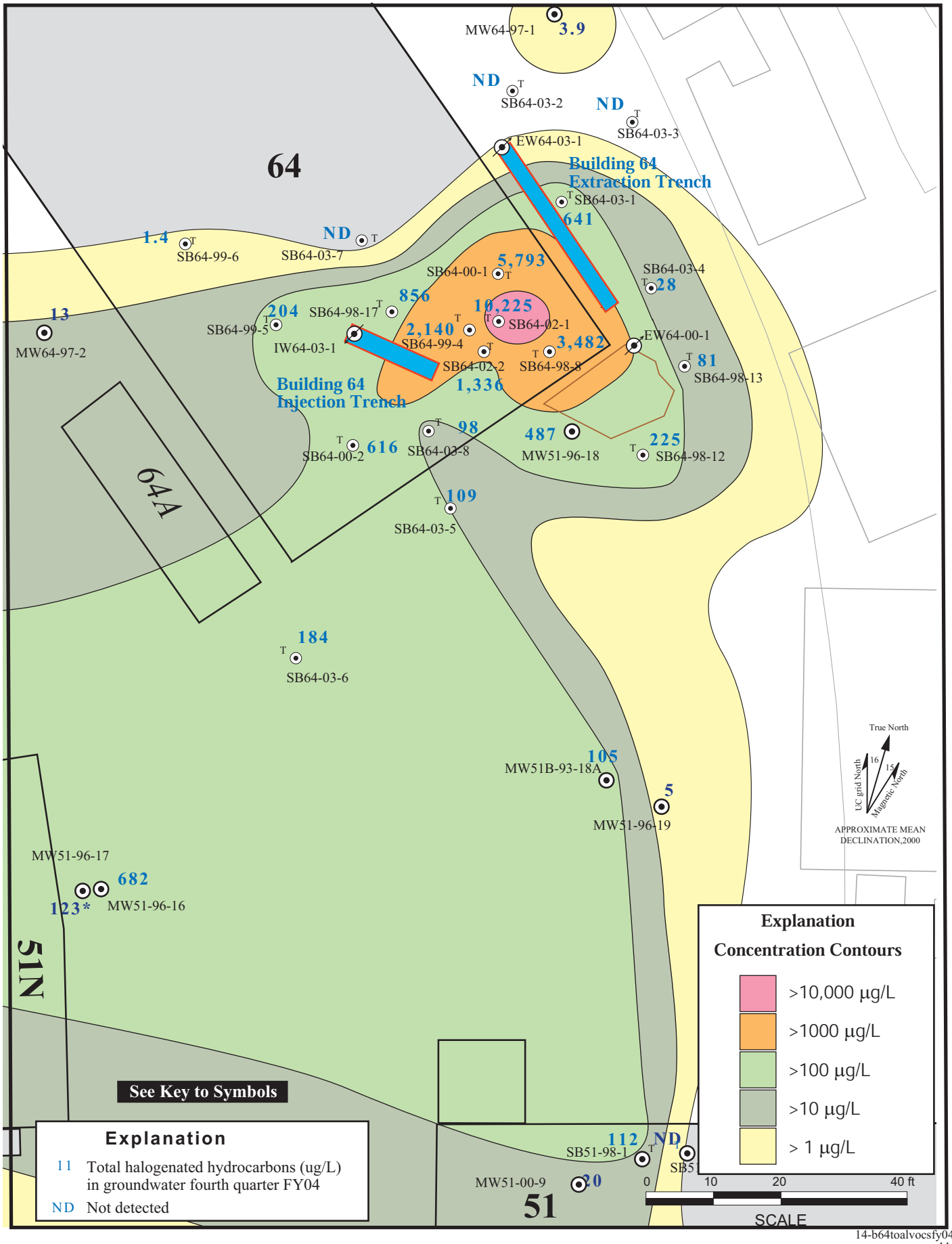

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Figure 14. Isoconcentration Contour Map, Total Halogenated Hydrocarbons in Groundwater, Source Area Building 51/64 Solvent Plume, Fourth Quarter FY04.

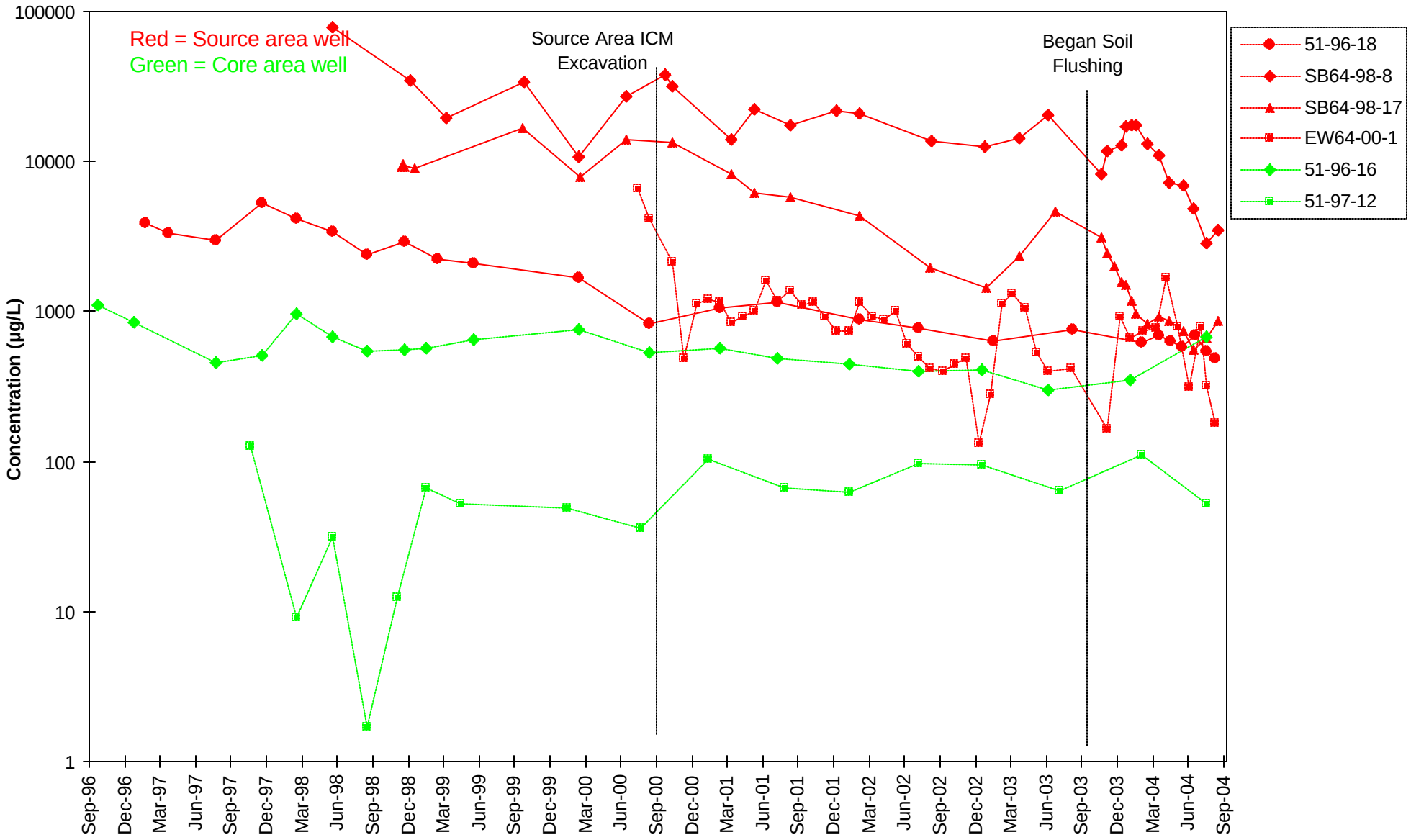

Figure 15a. Concentrations of Halogenated VOCs (excluding Freon compounds) in Selected Wells Monitoring the Source and Core Areas of the Building 51/64 Groundwater Solvent Plume

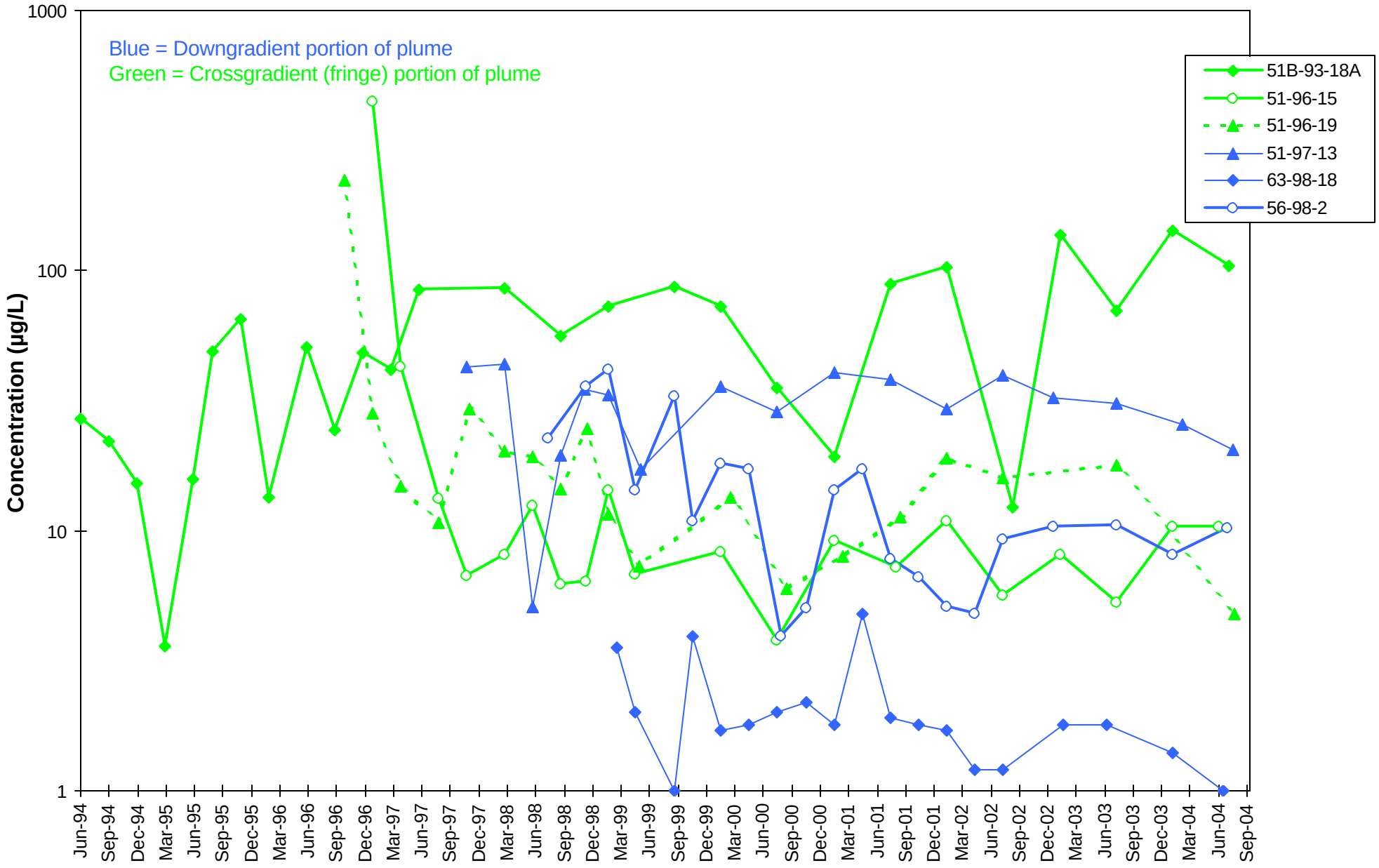

Figure 15b. Concentrations of Halogenated VOCs (excluding Freon compounds) in Selected Wells Monitoring the Crossgradient and Downgradient Areas of the Building 51/64 Groundwater Solvent Plume

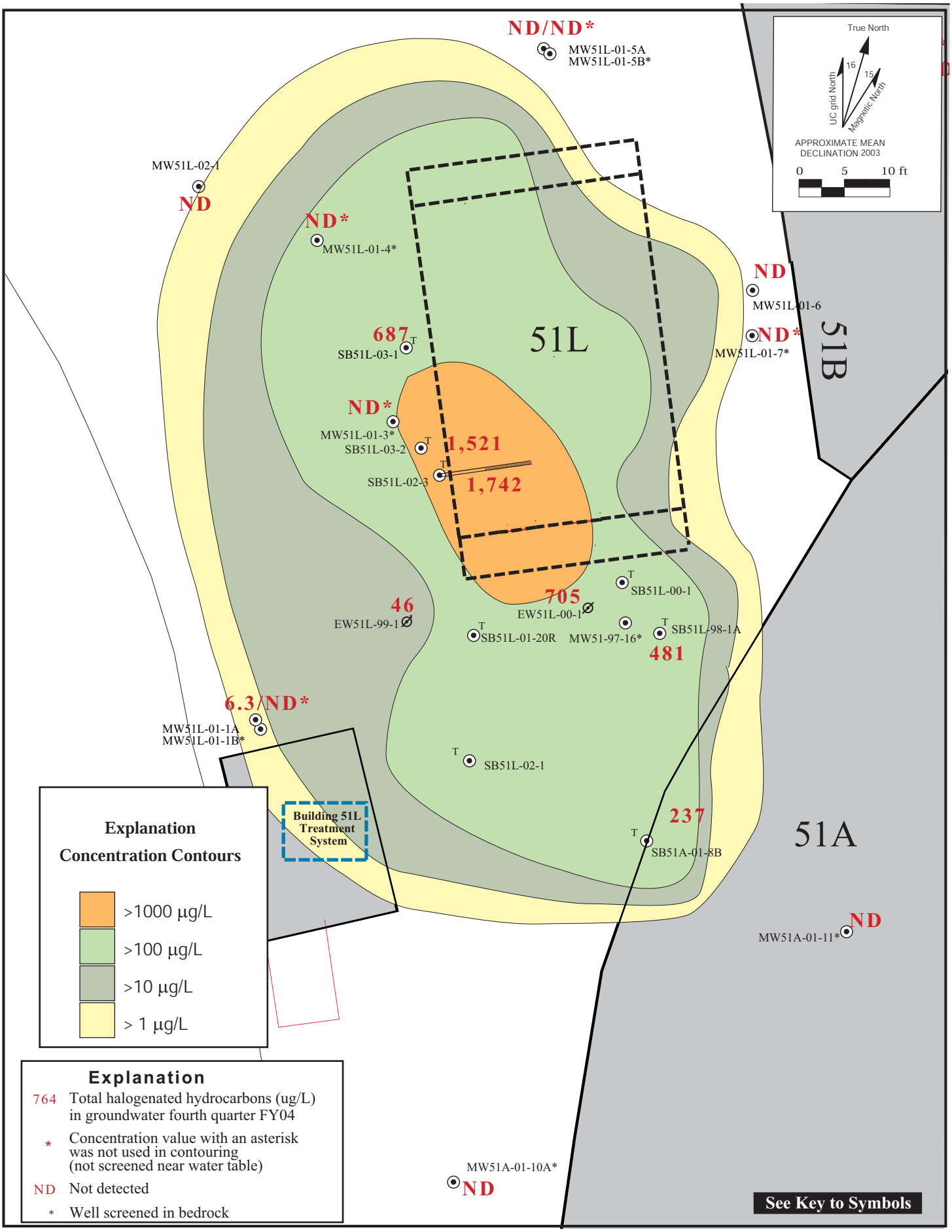

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Figure 16. Isoconcentration Contour Map, Total Halogenated Hydrocarbons in Groundwater in Fill, Building 51L Solvent Plume, Fourth Quarter FY04.

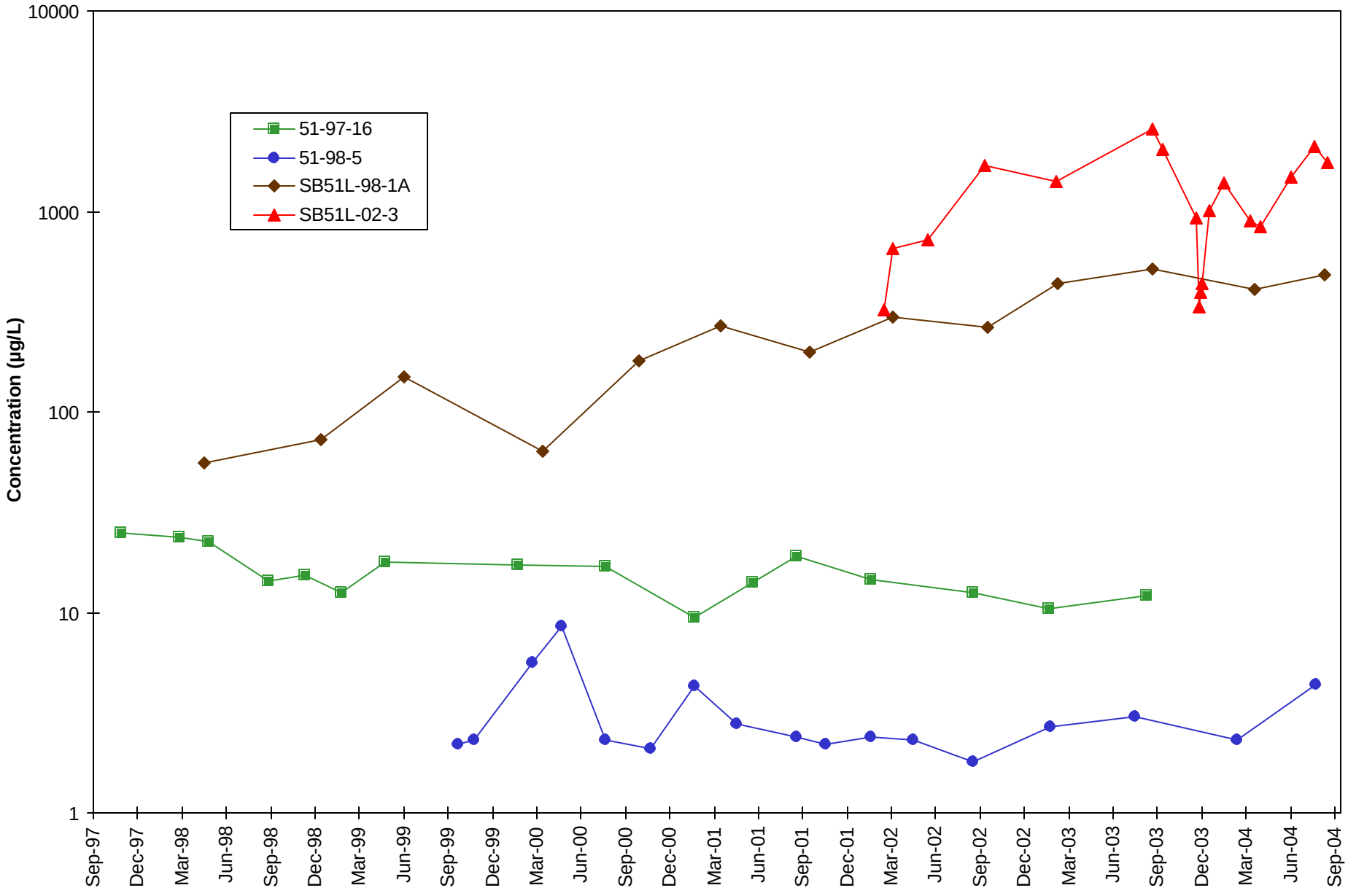

Figure 17. Total Halogenated Non-Aromatic VOC Concentrations in Wells Monitoring the Building 51L Solvent Plume

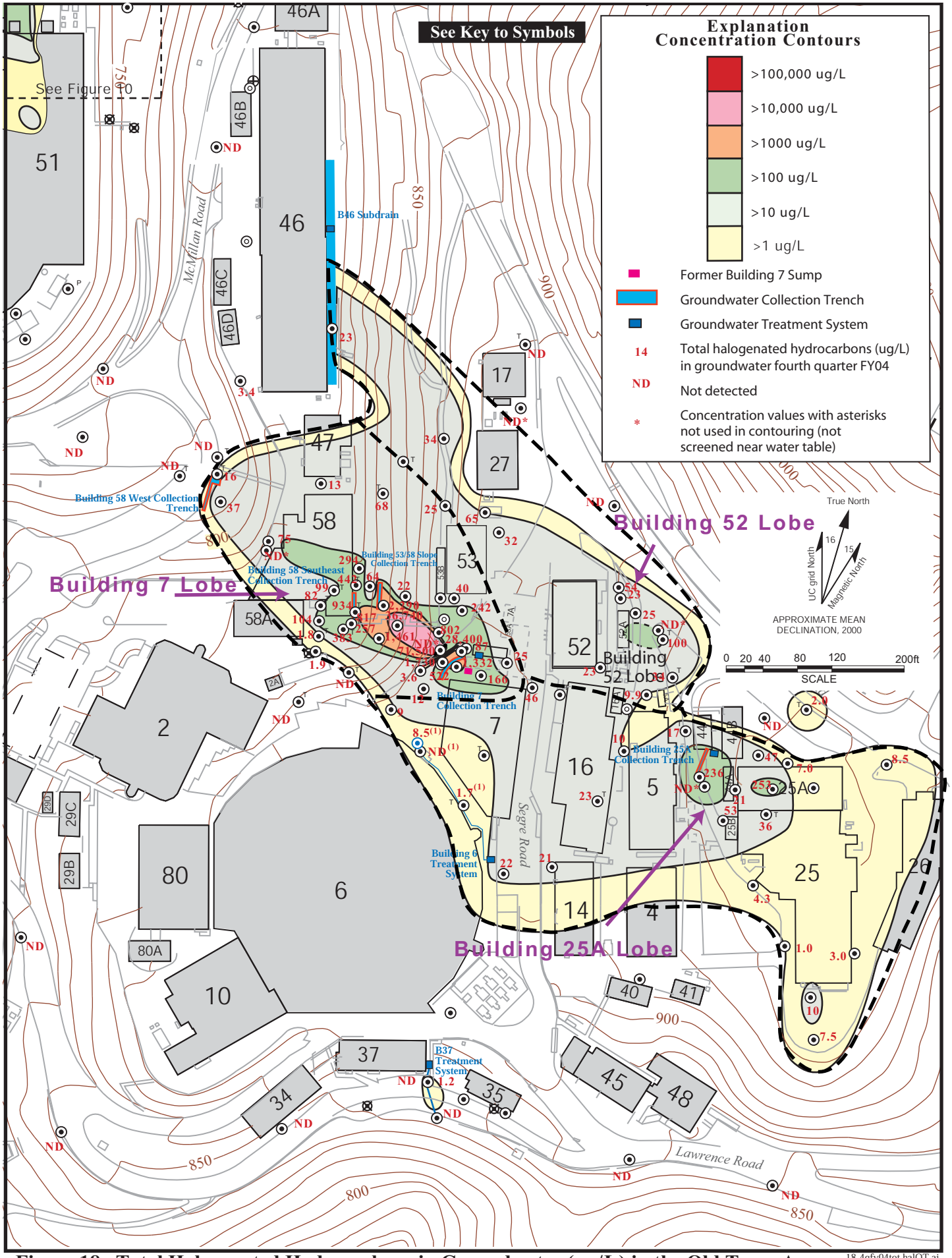

Figure 18. Total Halogenated Hydrocarbons in Groundwater (ug/L) in the Old Town Area, Fourth Quarter FY2004.

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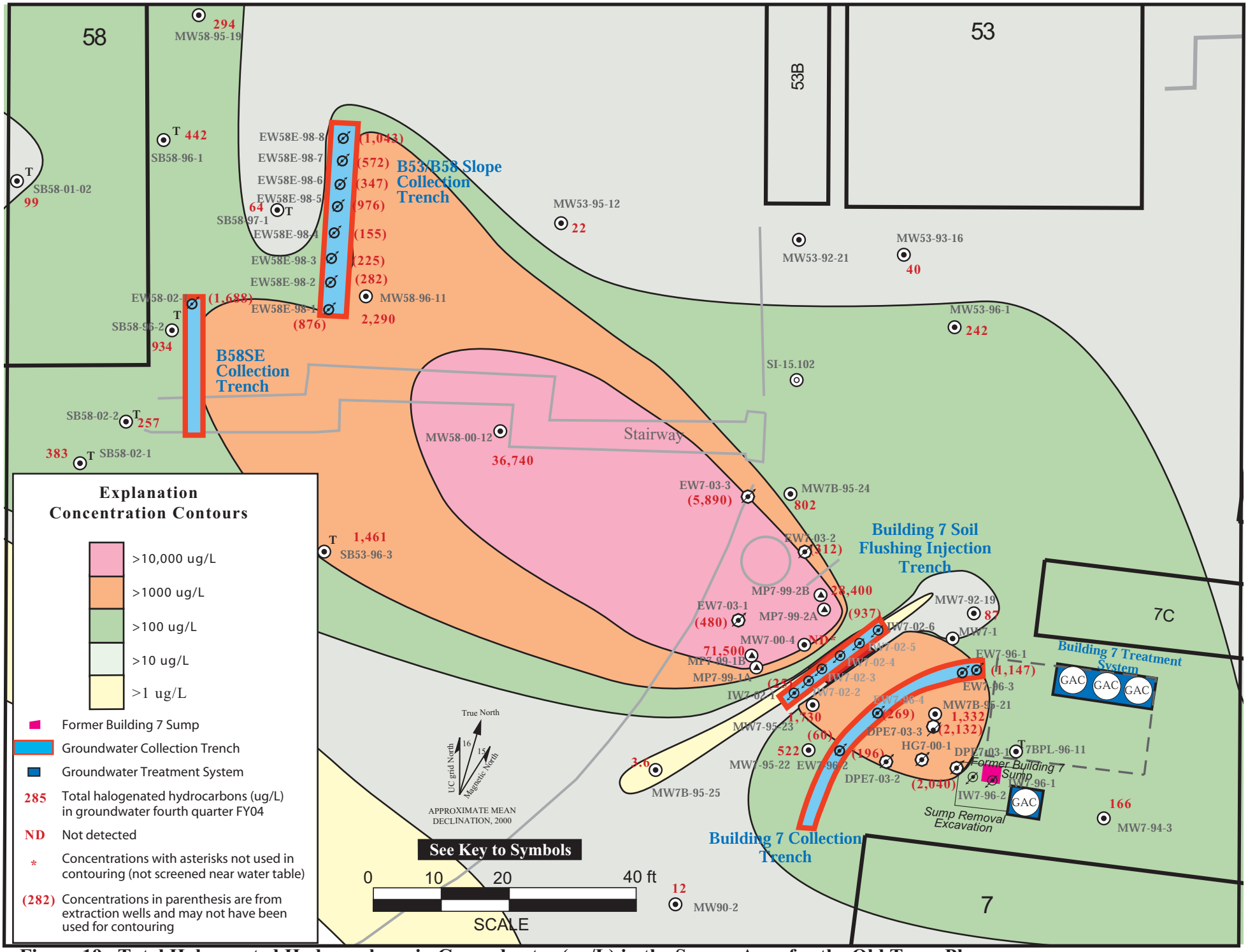

Figure 19. Total Halogenated Hydrocarbons in Groundwater (ug/L) in the Source Area for the Old Town Plume, Fourth Quarter FY2004.

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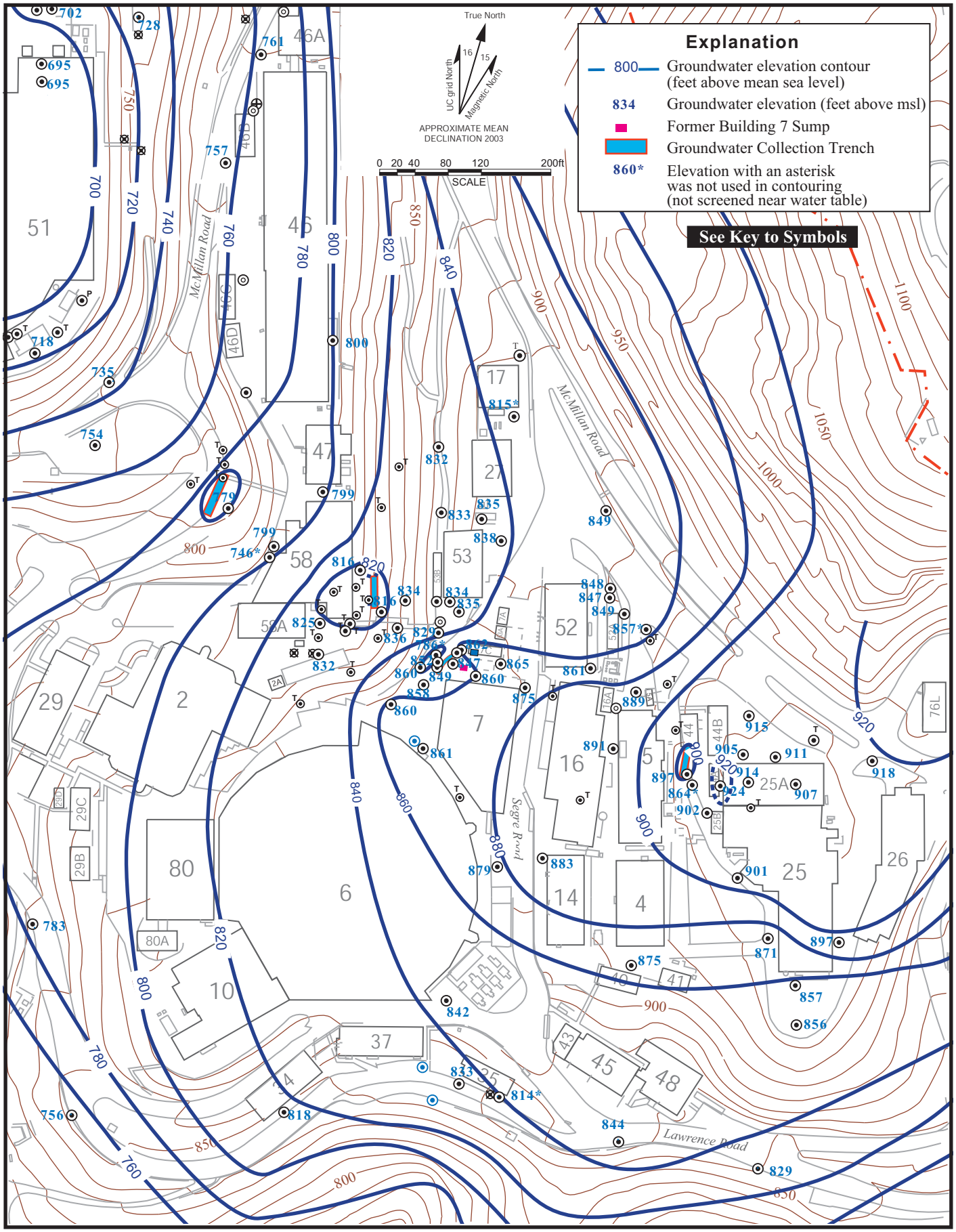

20-OT wl fy04q3.ai
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Figure 20. Water Level Elevation Map of the Old Town Area, Fourth Quarter FY2004.

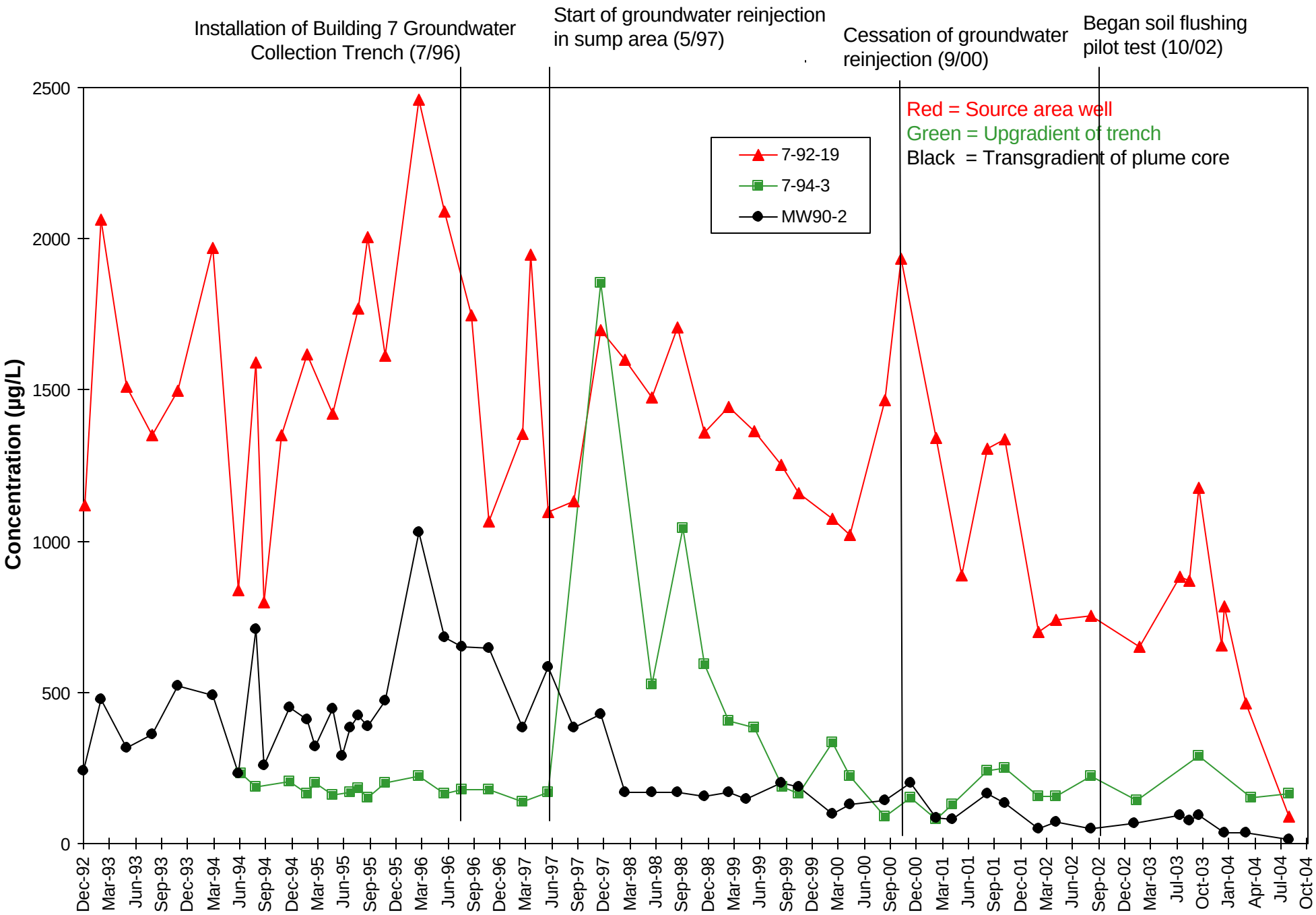


Figure 21a. Concentration Trends for Total Halogenated VOCs in Wells Located Near Source of the Old Town Plume, (Building 7 Lobe)

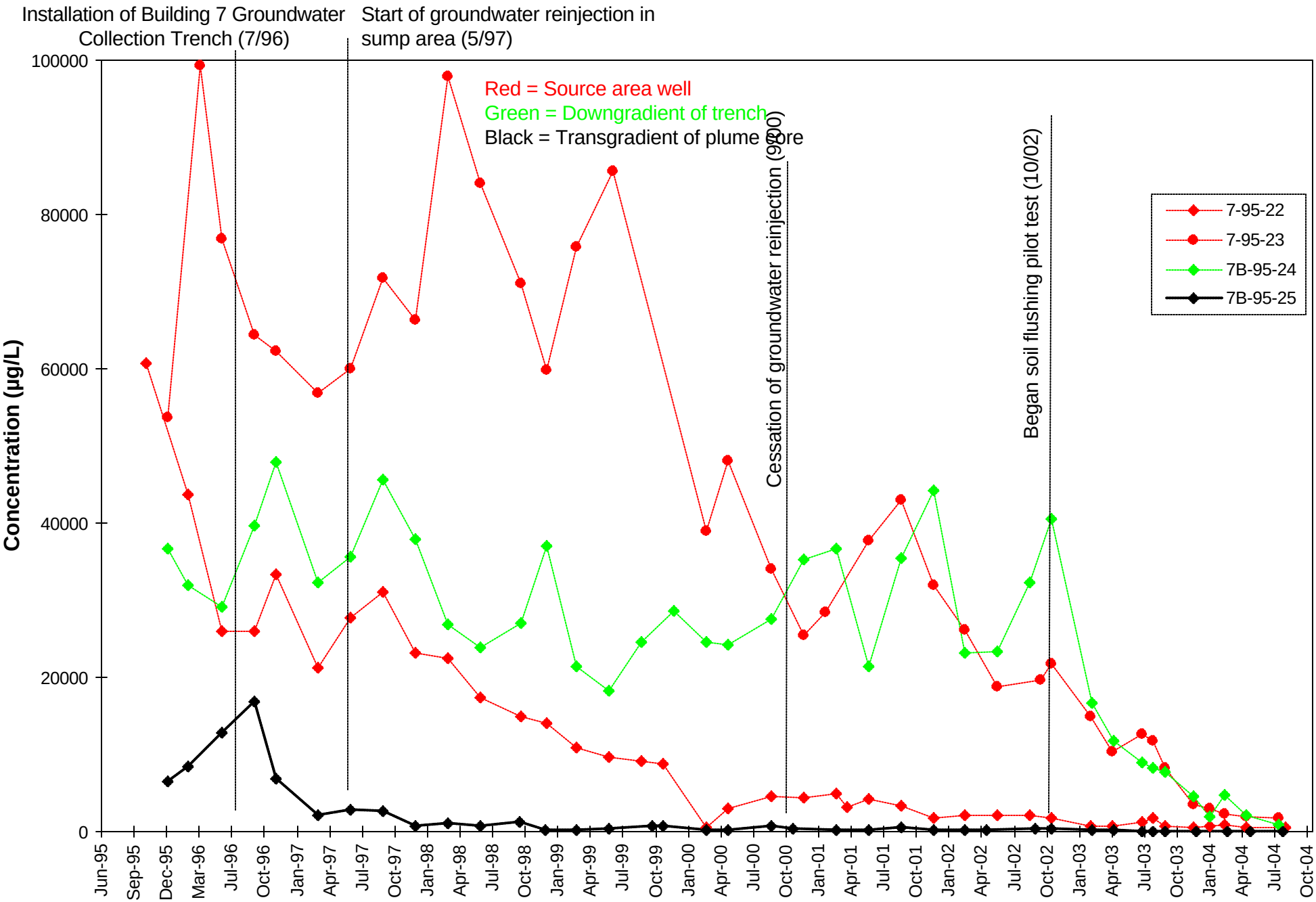


Figure 21b. Concentration Trends for Total Halogenated VOCs in Wells Located Near Source of the Old Town Plume, (Building 7 Lobe)

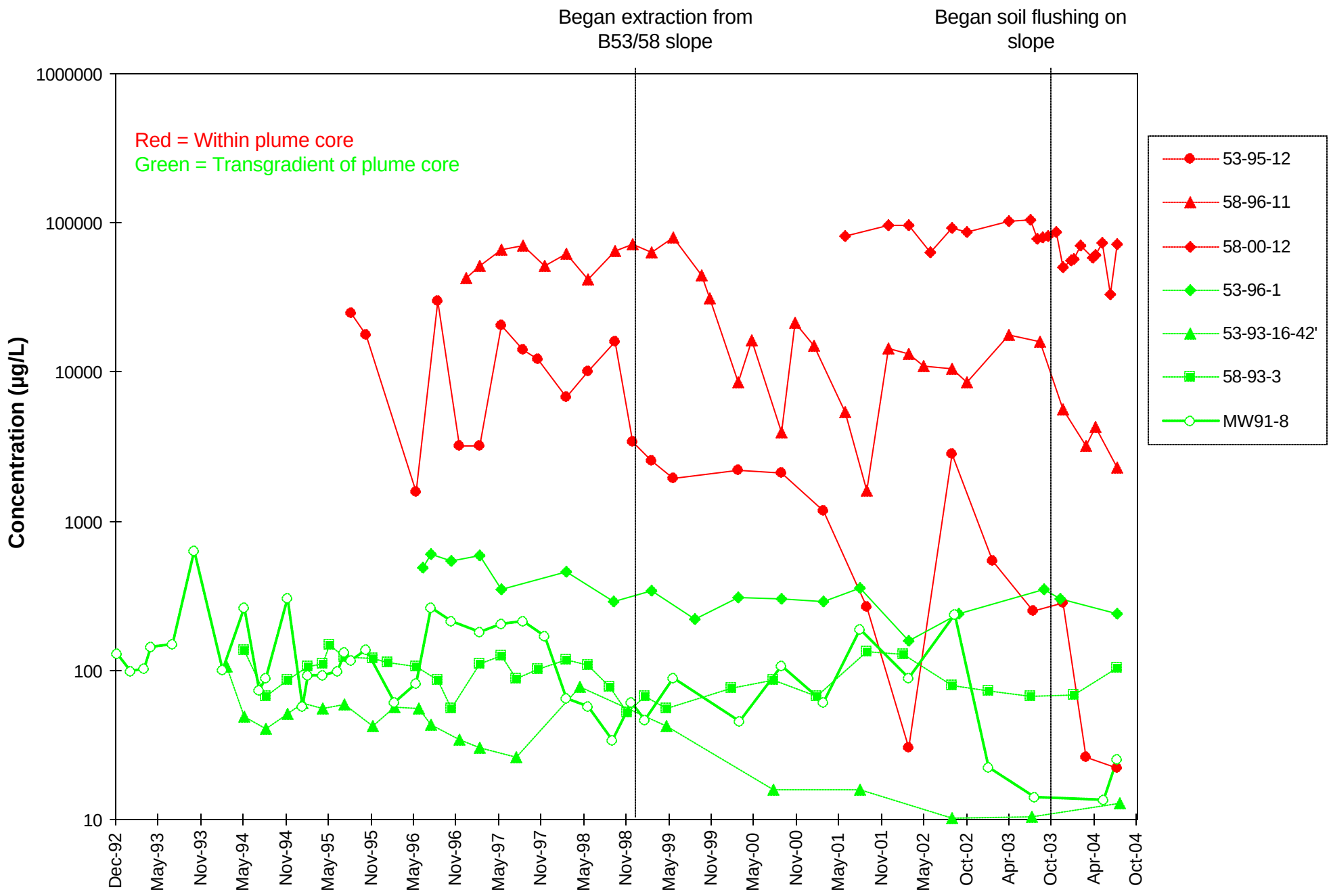


Figure 21c. Concentration Trends for Total Halogenated VOCs in Wells Located in the Plume Core Portion of the Old Town Plume (Building 7 Lobe)

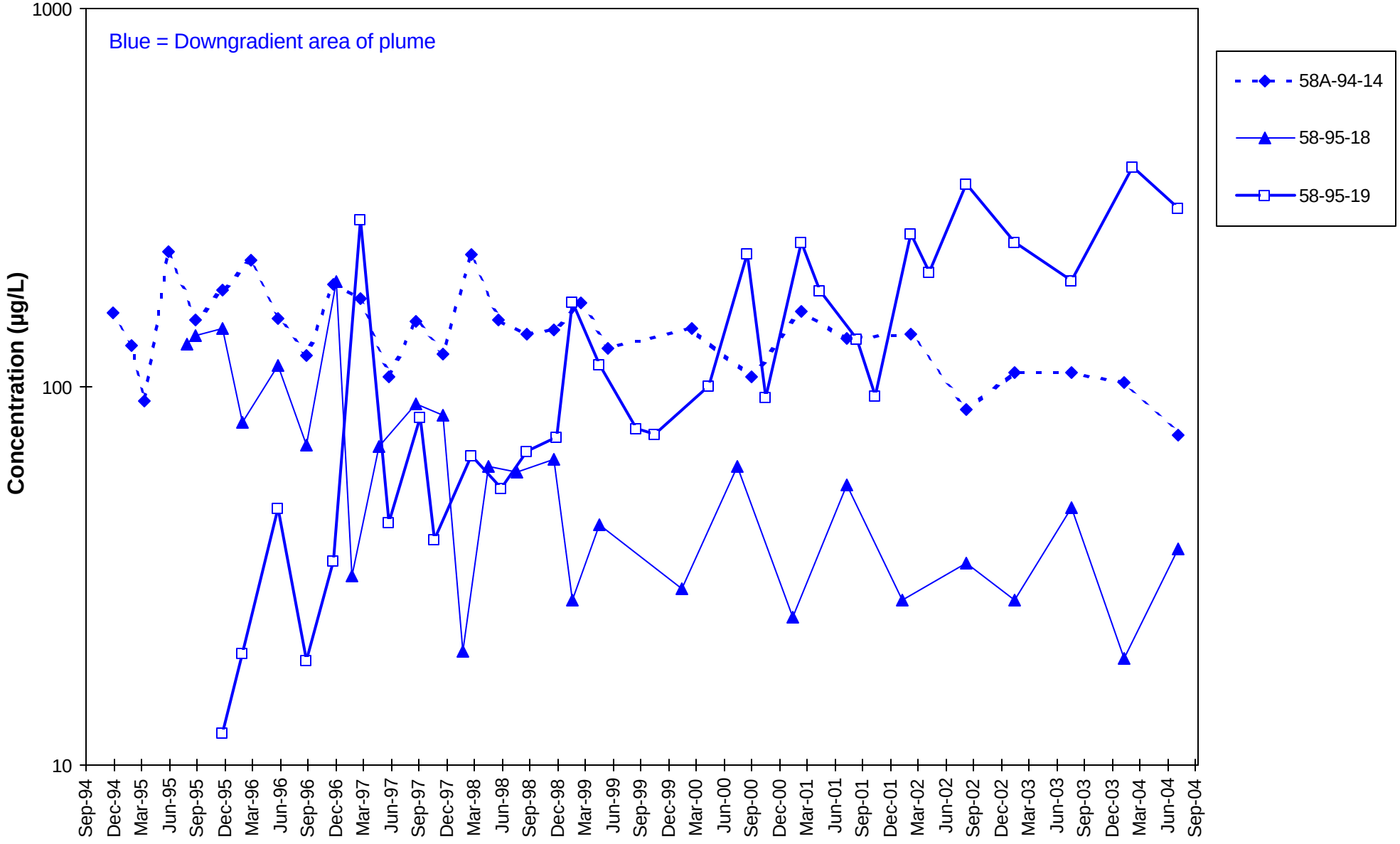


Figure 21d. Concentration Trends for Total Halogenated VOCs in Wells Located in the Downgradient Portion of the Old Town Plume (Building 7 Lobe)

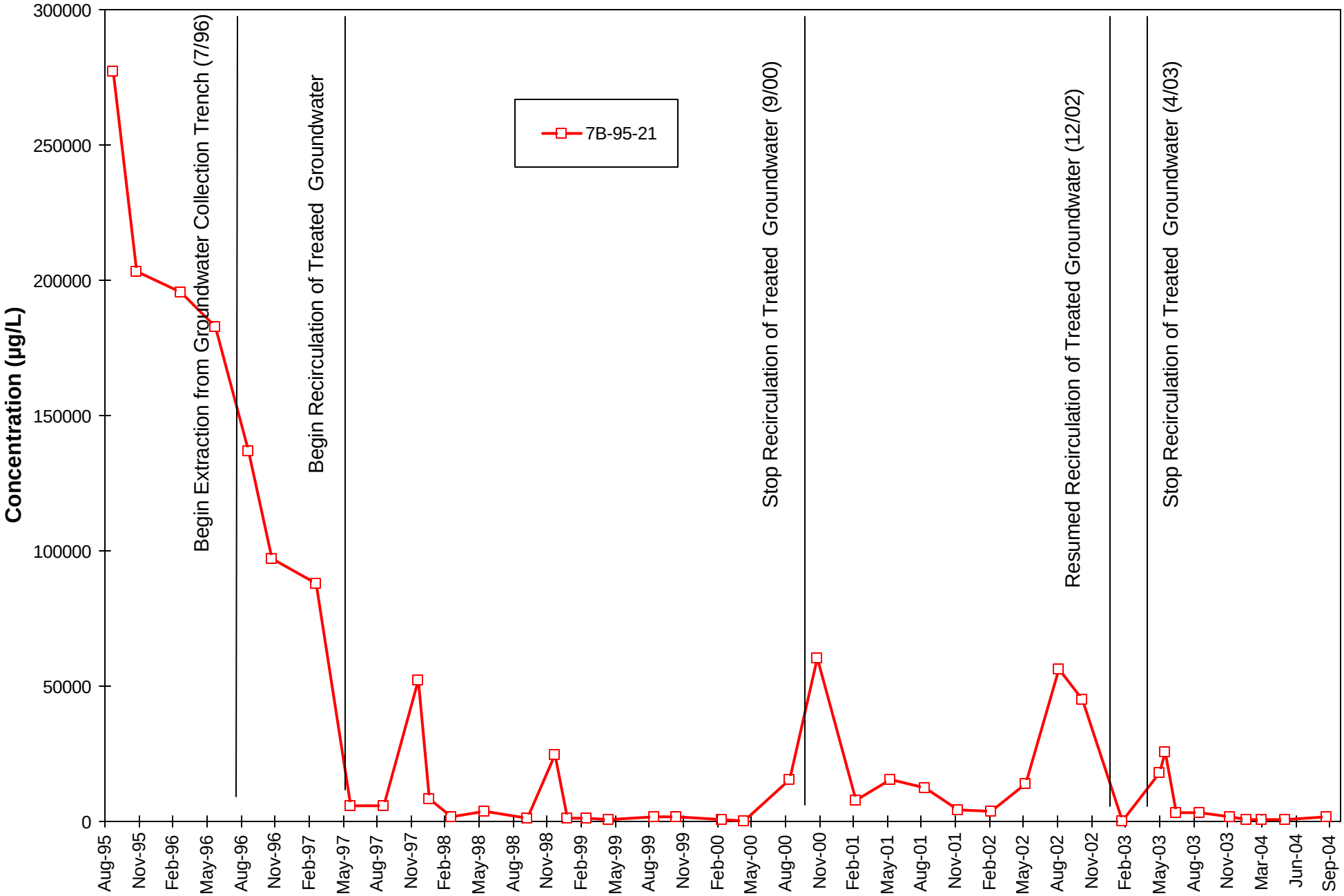
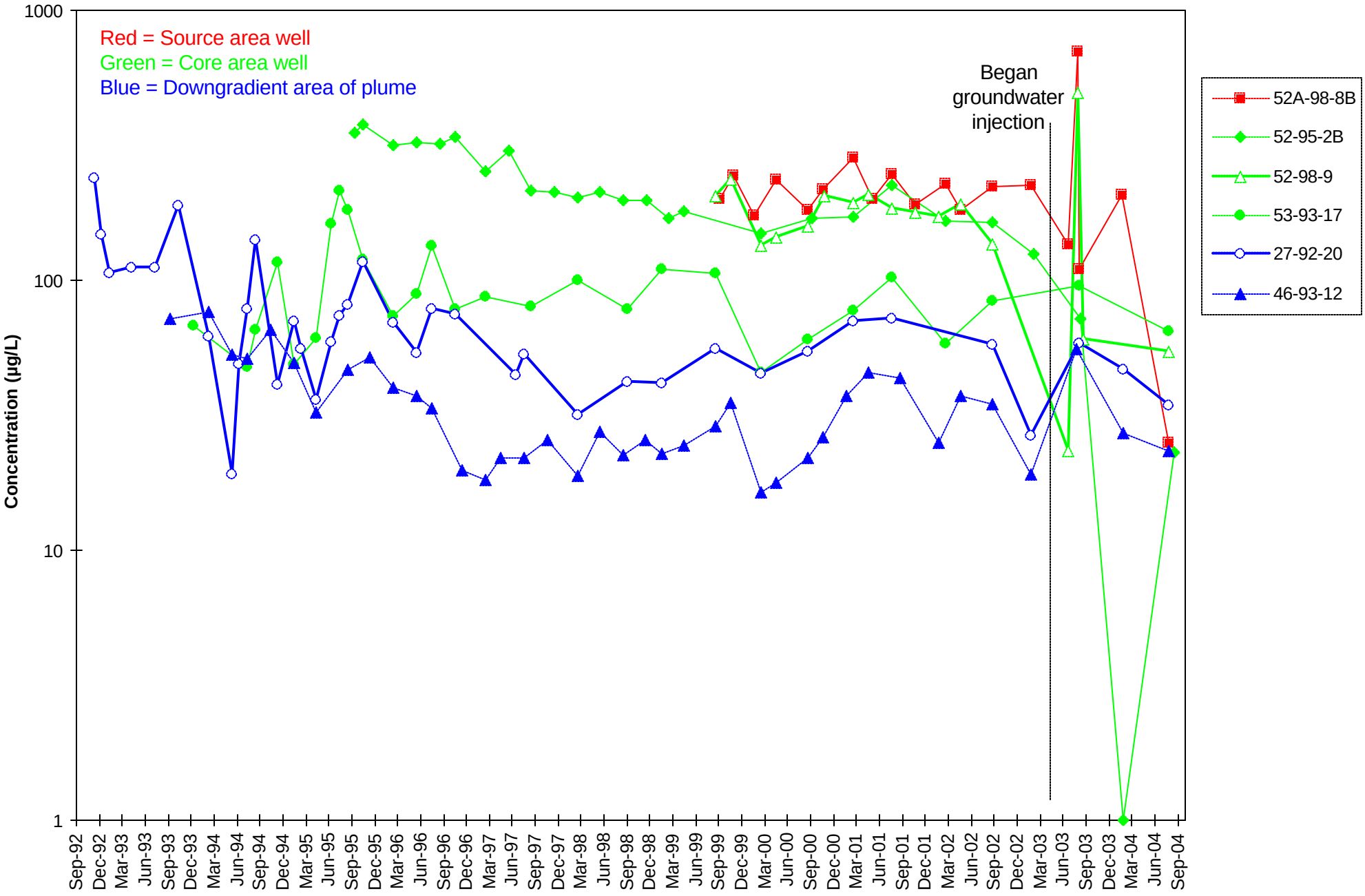


Figure 21e. Concentration Trends for Total Halogenated VOCs in Well 7B-95-21 Located Near Source of the Old Town Plume, (Building 7 Lobe)



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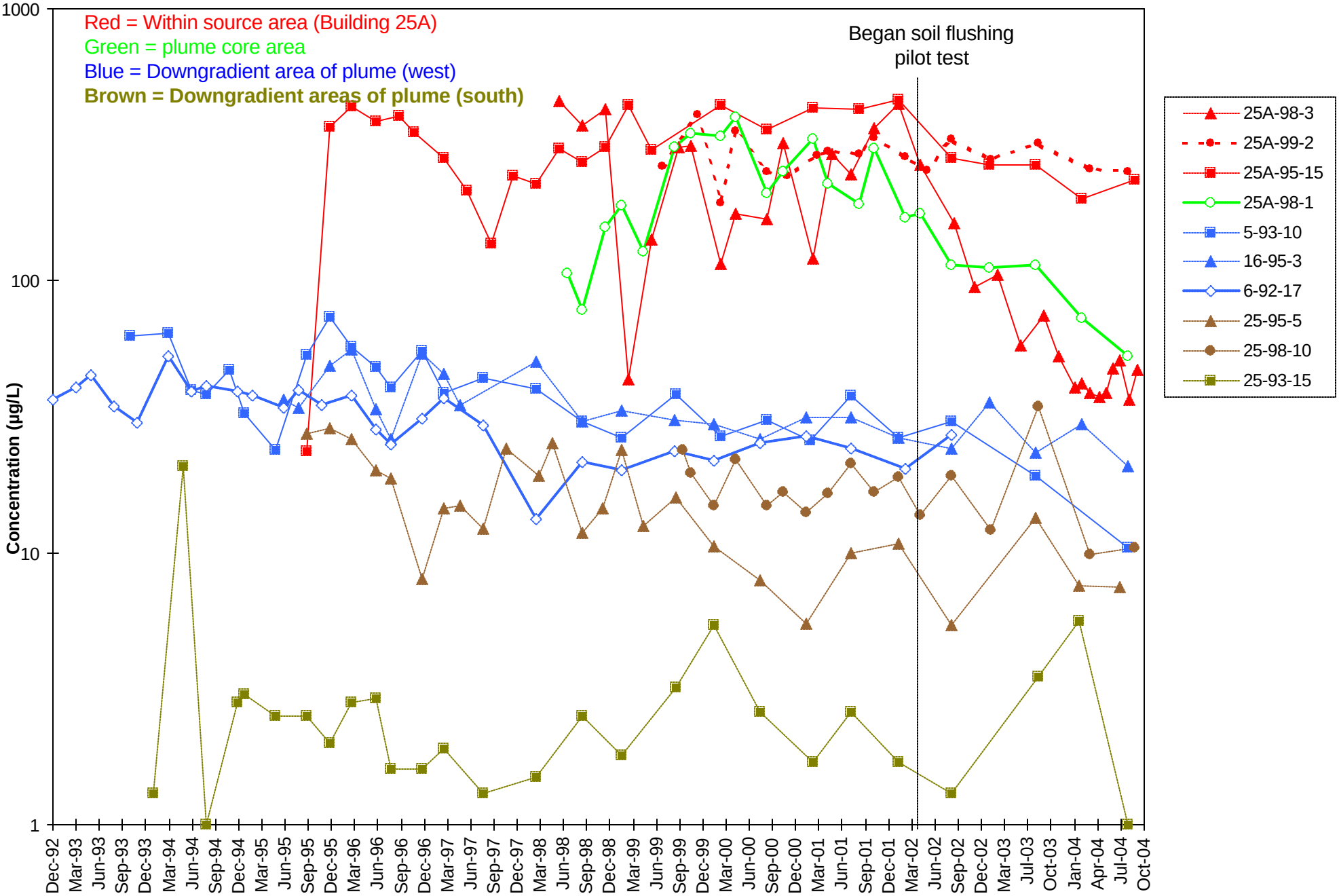

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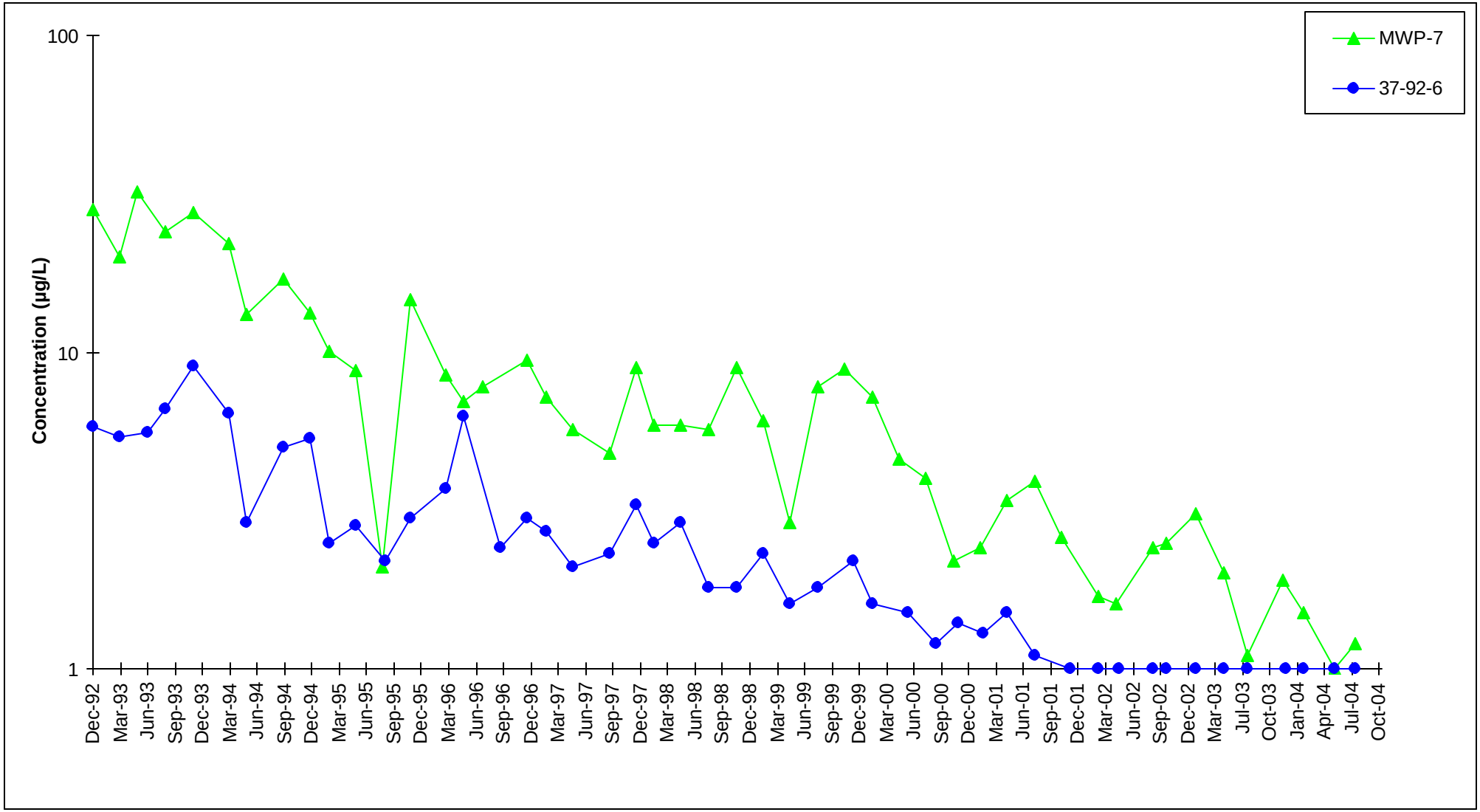
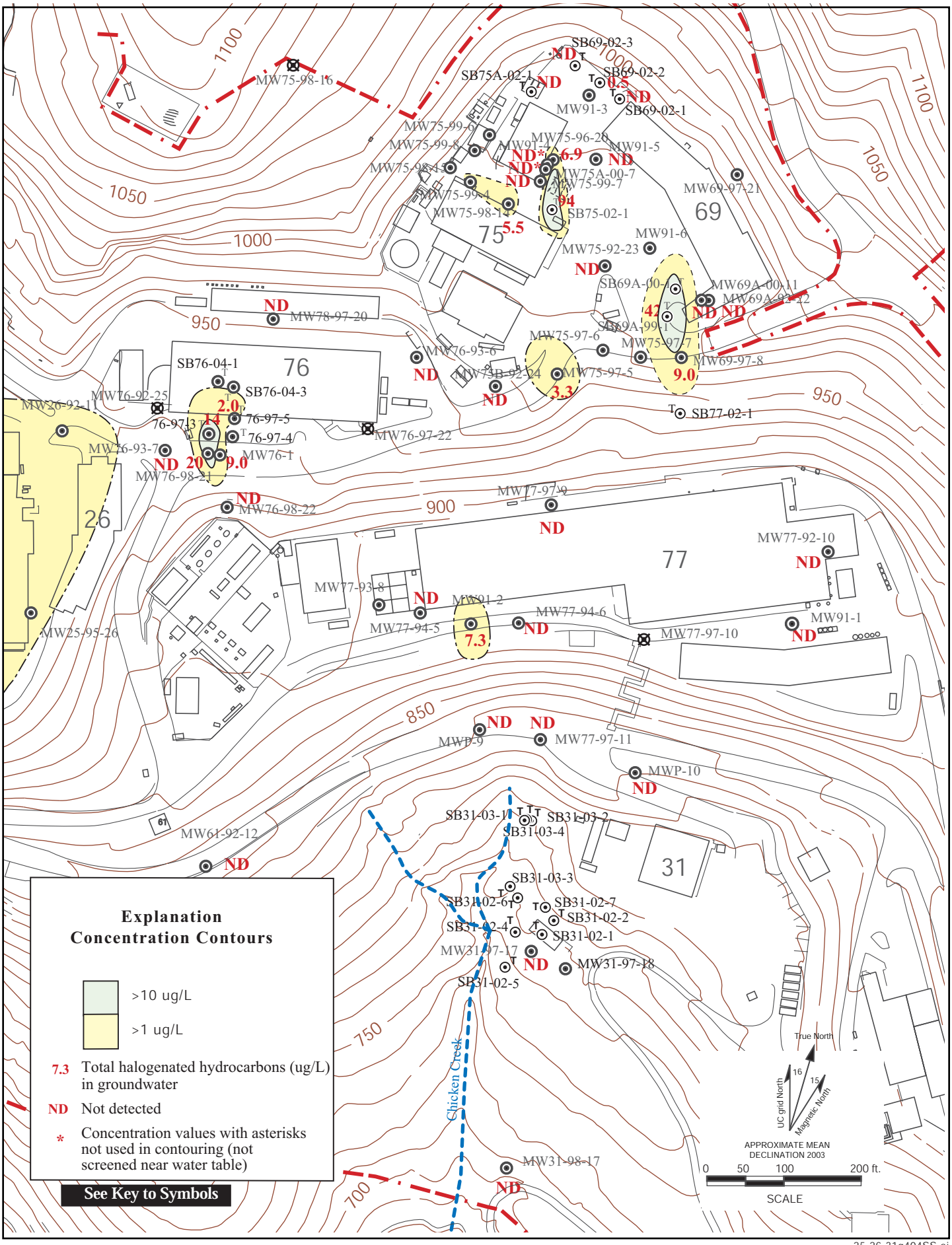


Figure 24. Concentration Trends for Total Halogenated VOCs in Wells Monitoring the Building 37 Plume



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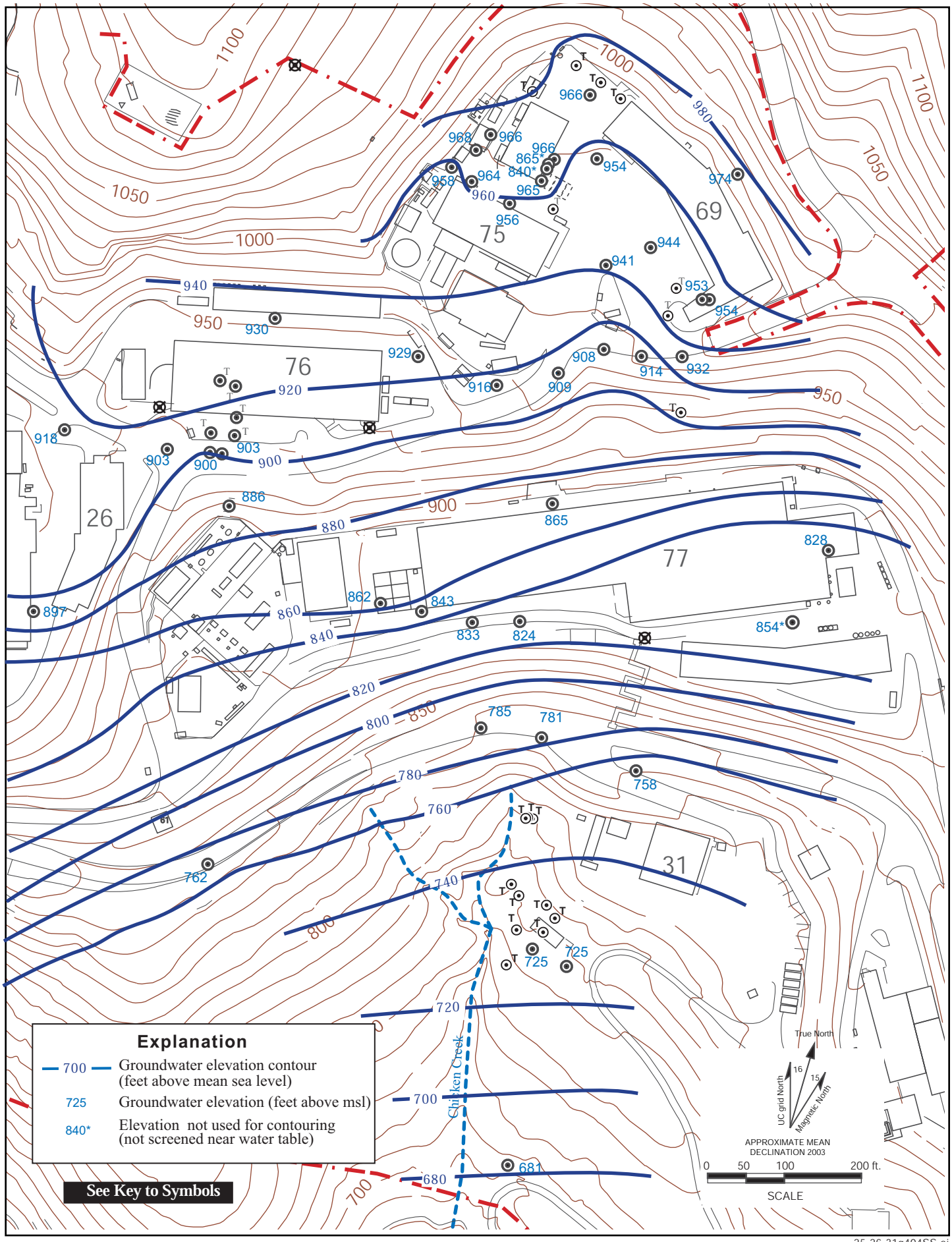

25-26-31q404SS.ai
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Figure 26. Water Level Elevation Map of the Support Services Area, Fourth Quarter FY2004.

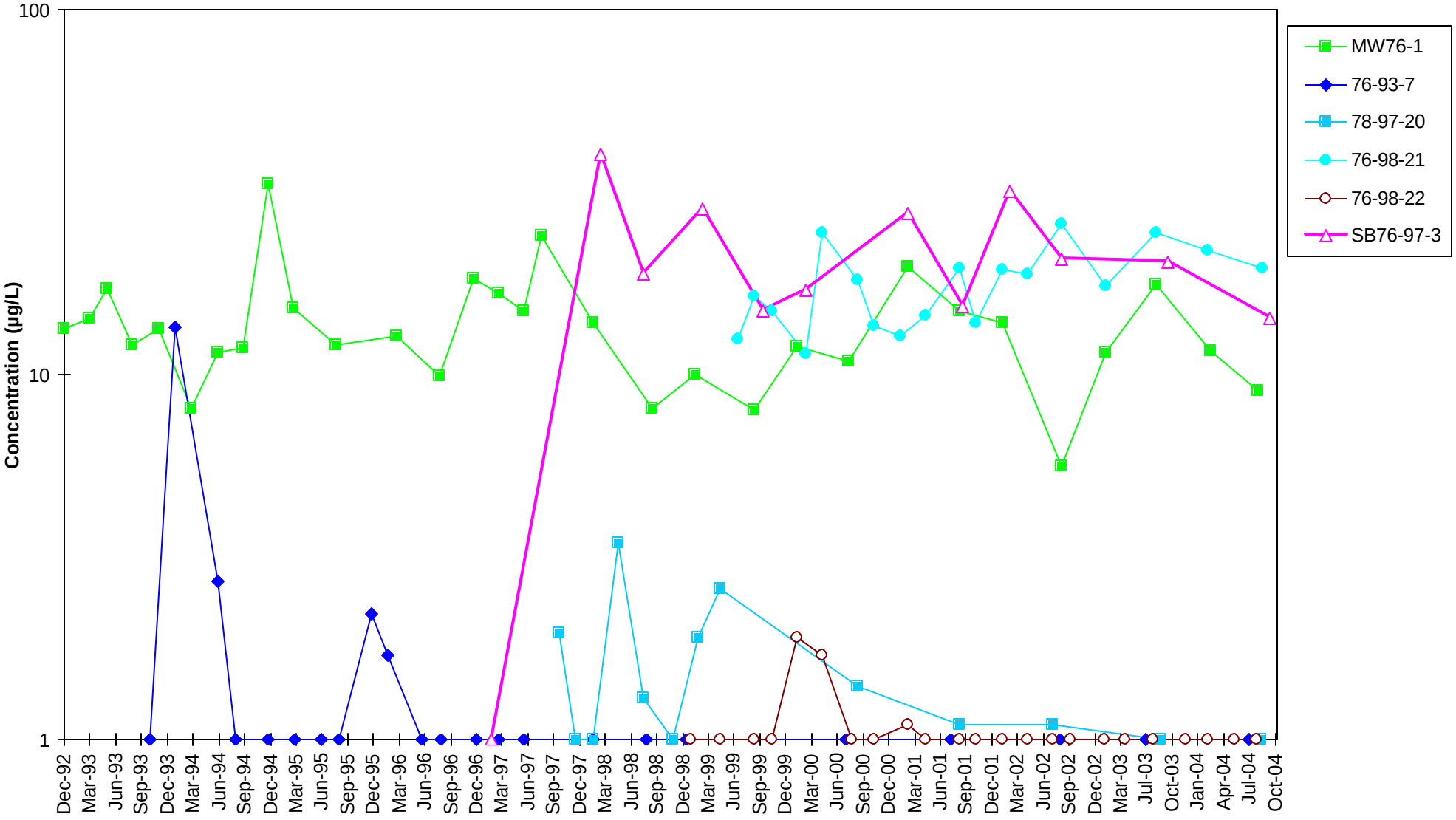


Figure 27. Concentration Trends for Halogenated Non-Aromatic VOCs in Wells Monitoring the Building 76 Solvent Plume

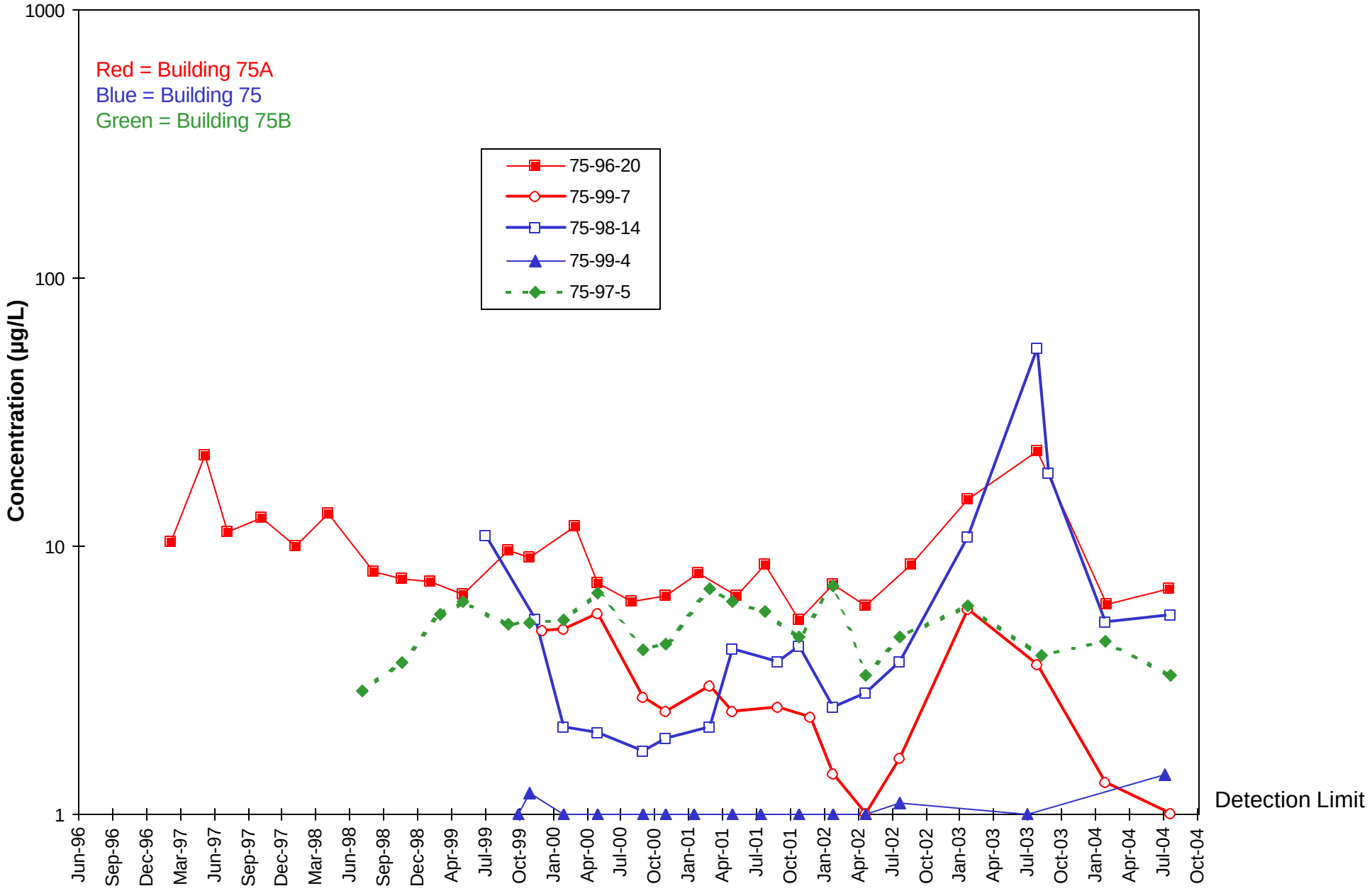


Figure 28a. Concentration Trends for Halogenated Non-Aromatic VOCs in Wells Monitoring the Support Services Area (Excluding Building 76 Solvent Plume)

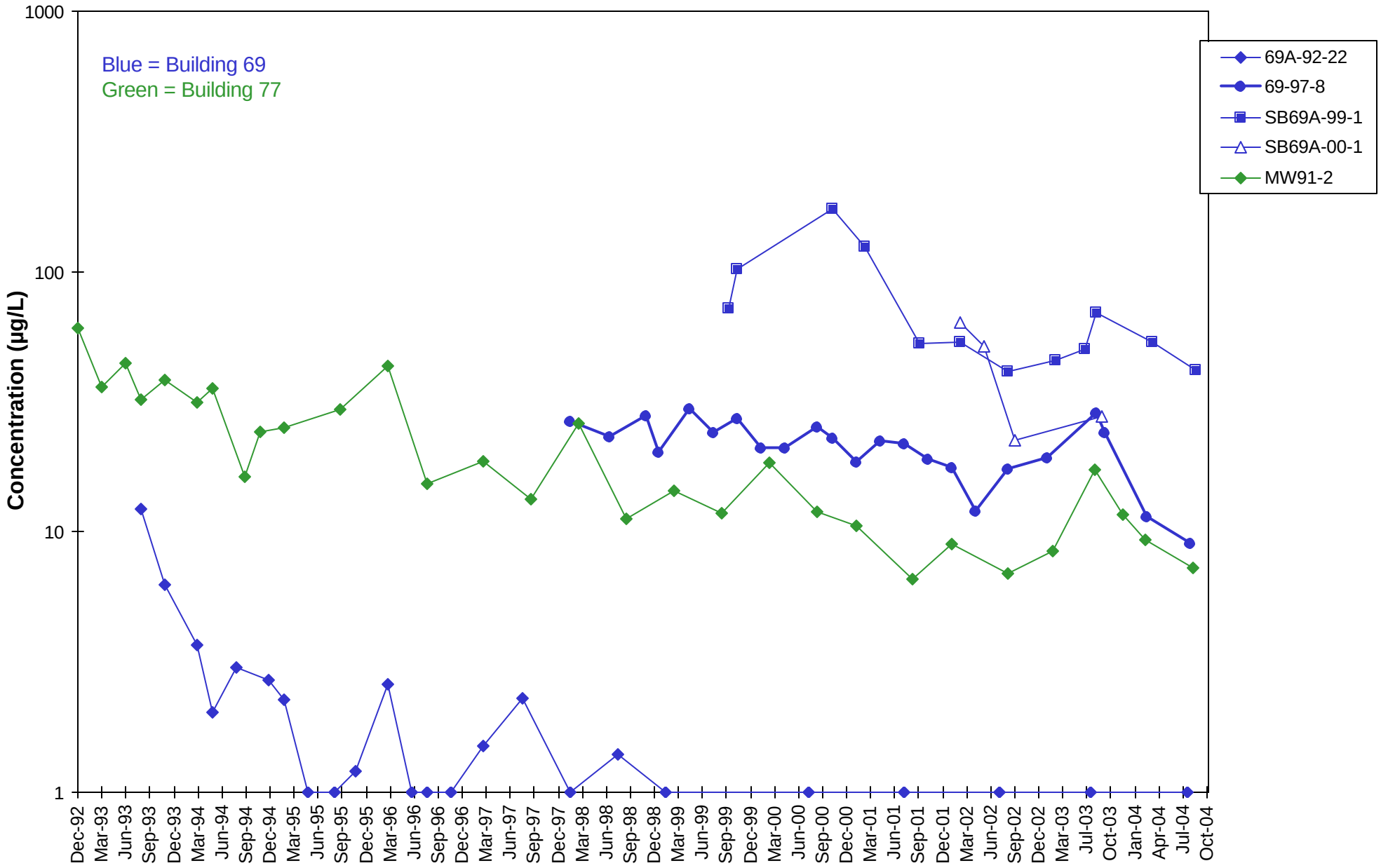
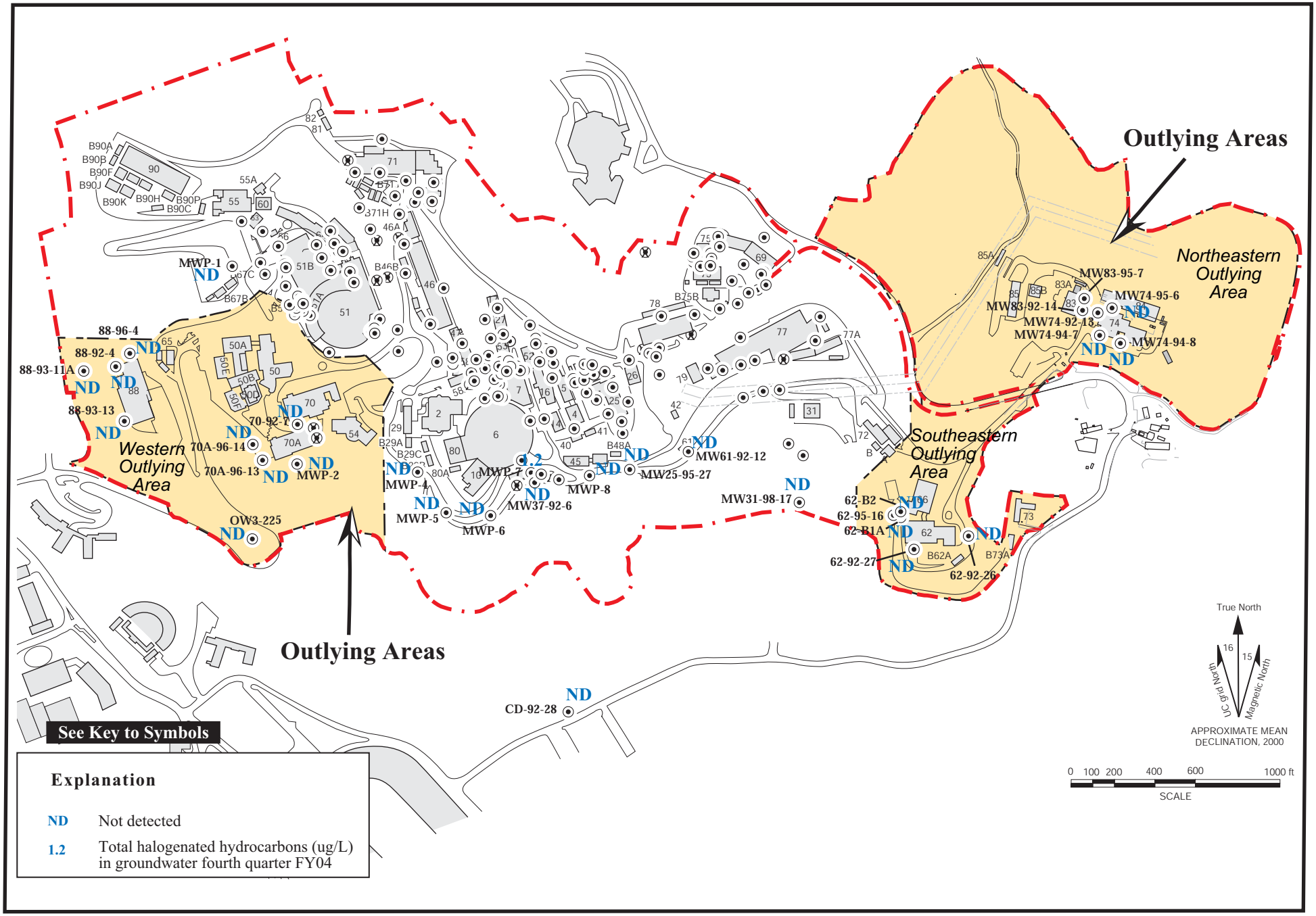


Figure 28b. Concentration Trends for Halogenated Non-Aromatic VOCs in Wells Monitoring the Support Services Area (Excluding Building 76 Solvent Plume)



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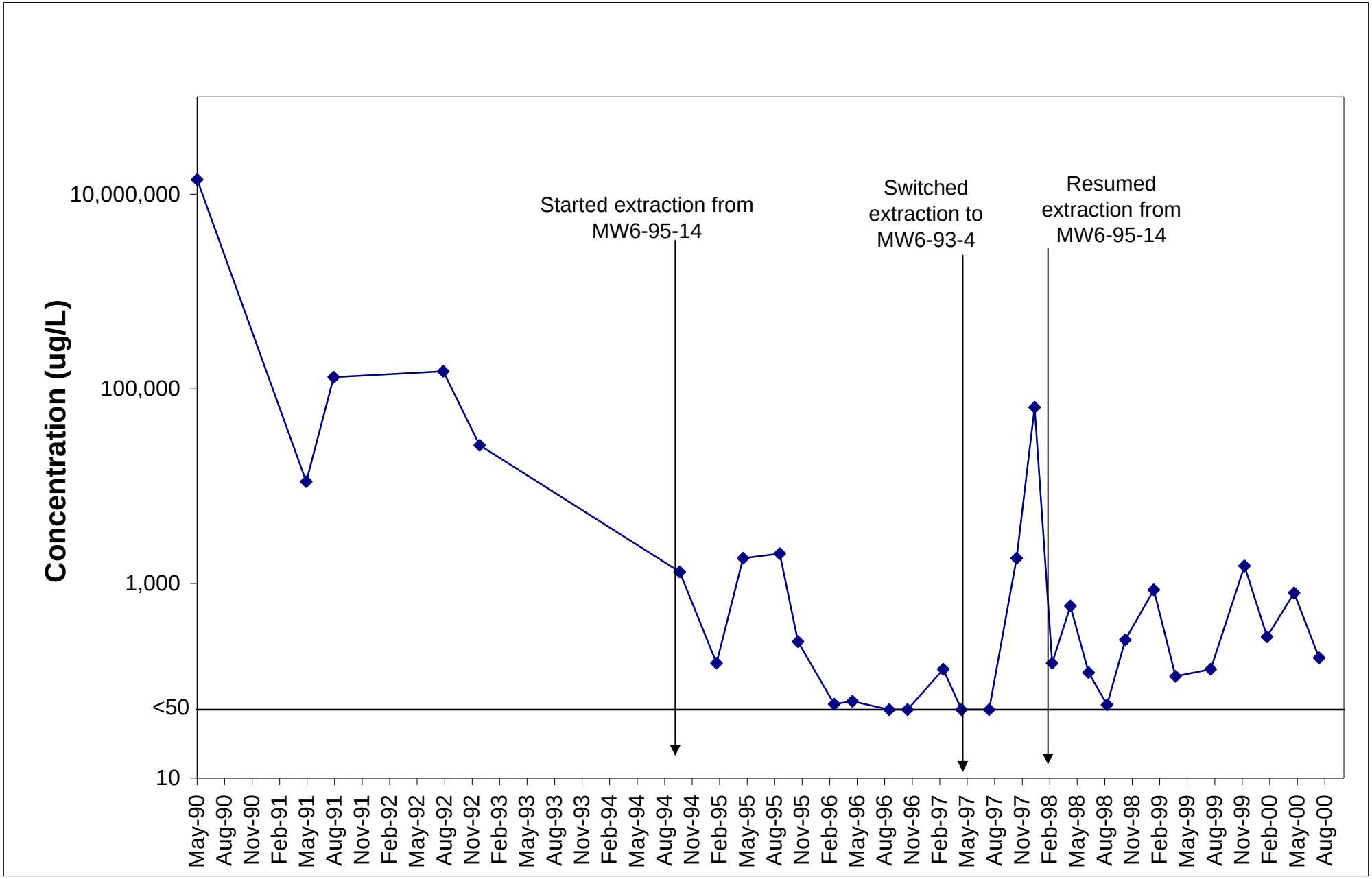

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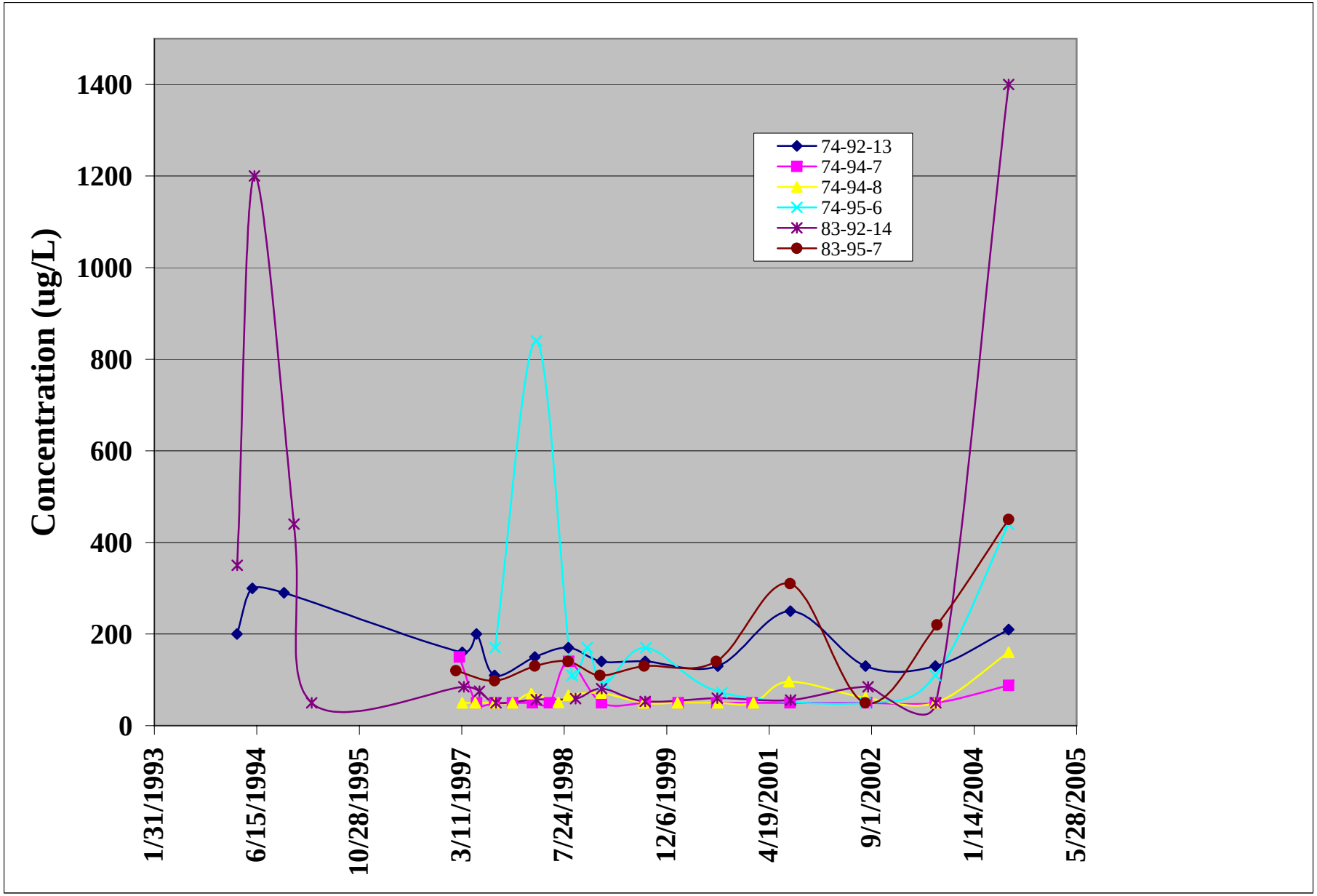

Figure 31. Concentration Trends for TPH-D in Wells Monitoring the Building 74 Diesel Plume.

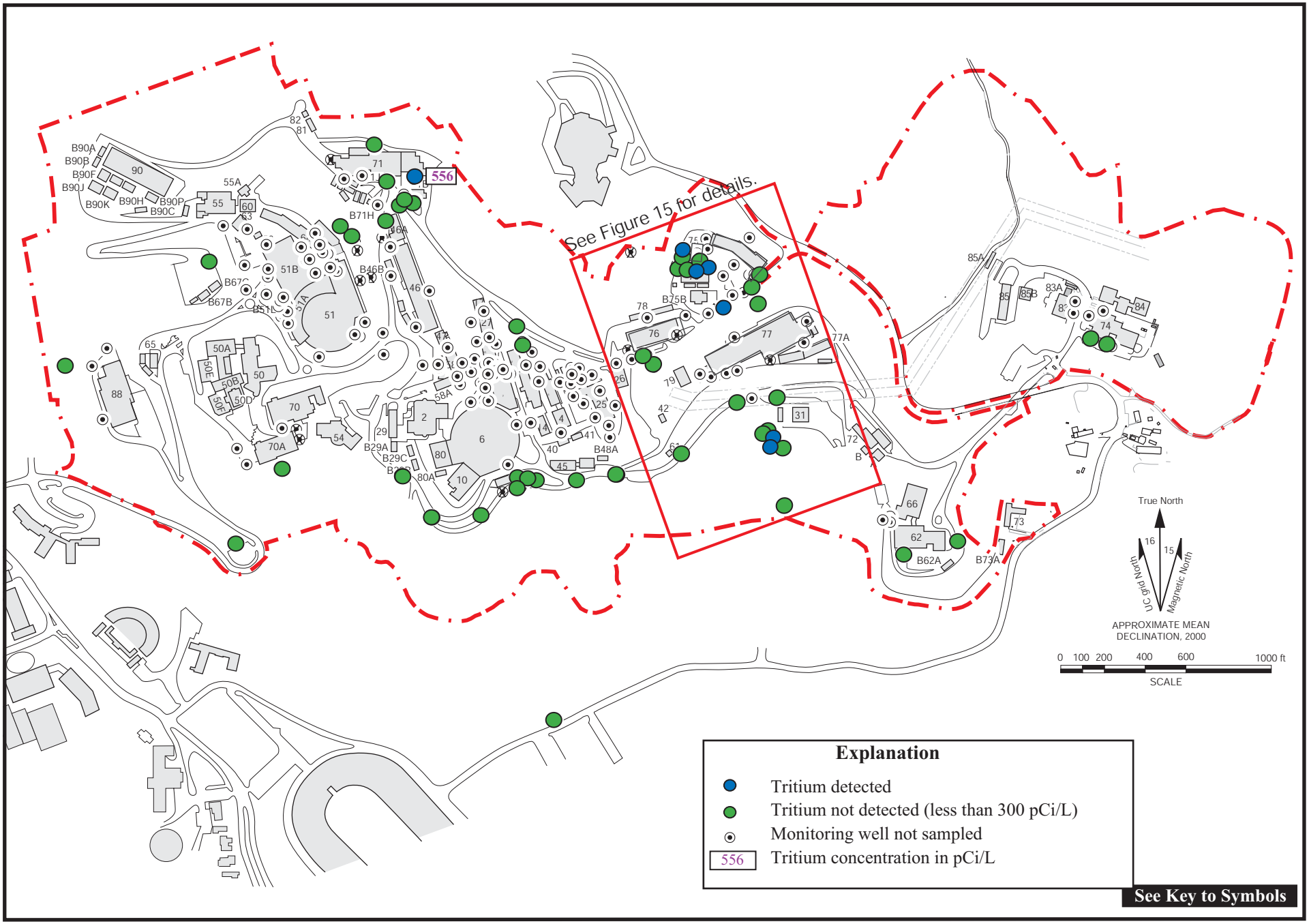

Figure 32. Concentrations of Tritium (pCi/L) Detected in Groundwater, Fourth Quarter FY2004.

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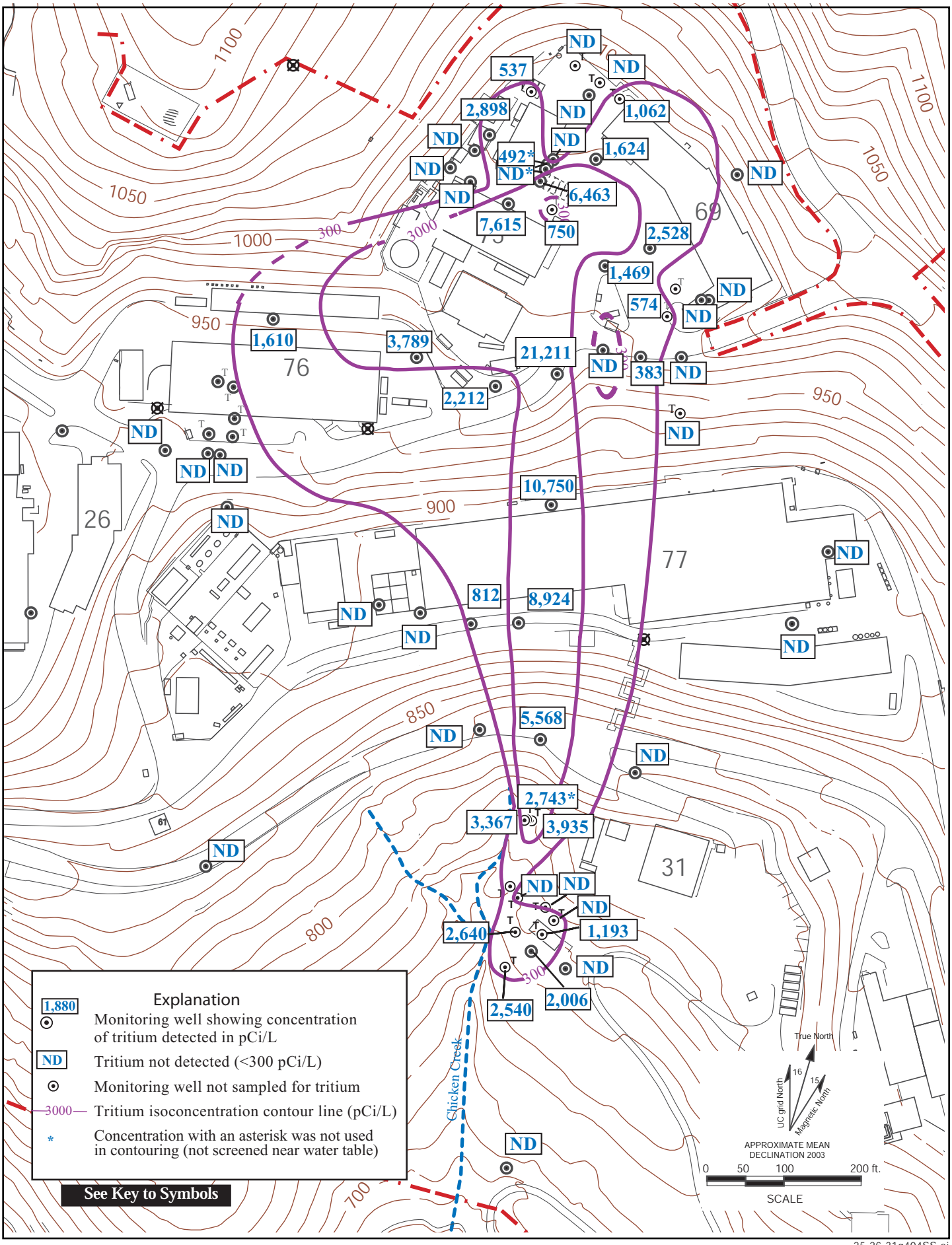

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Figure 34. Tritium Concentrations in Wells Monitoring the Building 75 Tritium Plume Since Closure of the NTLF.

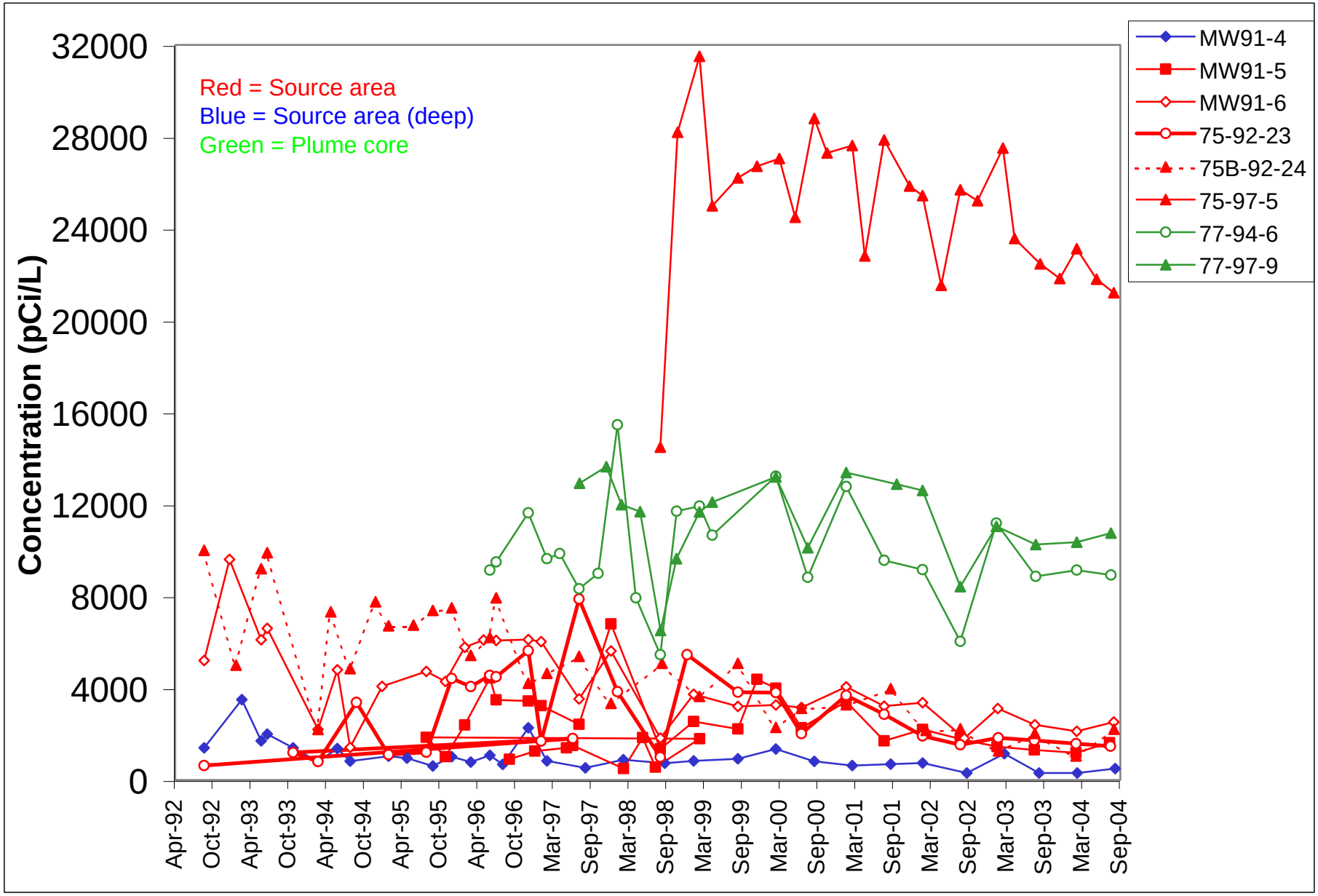
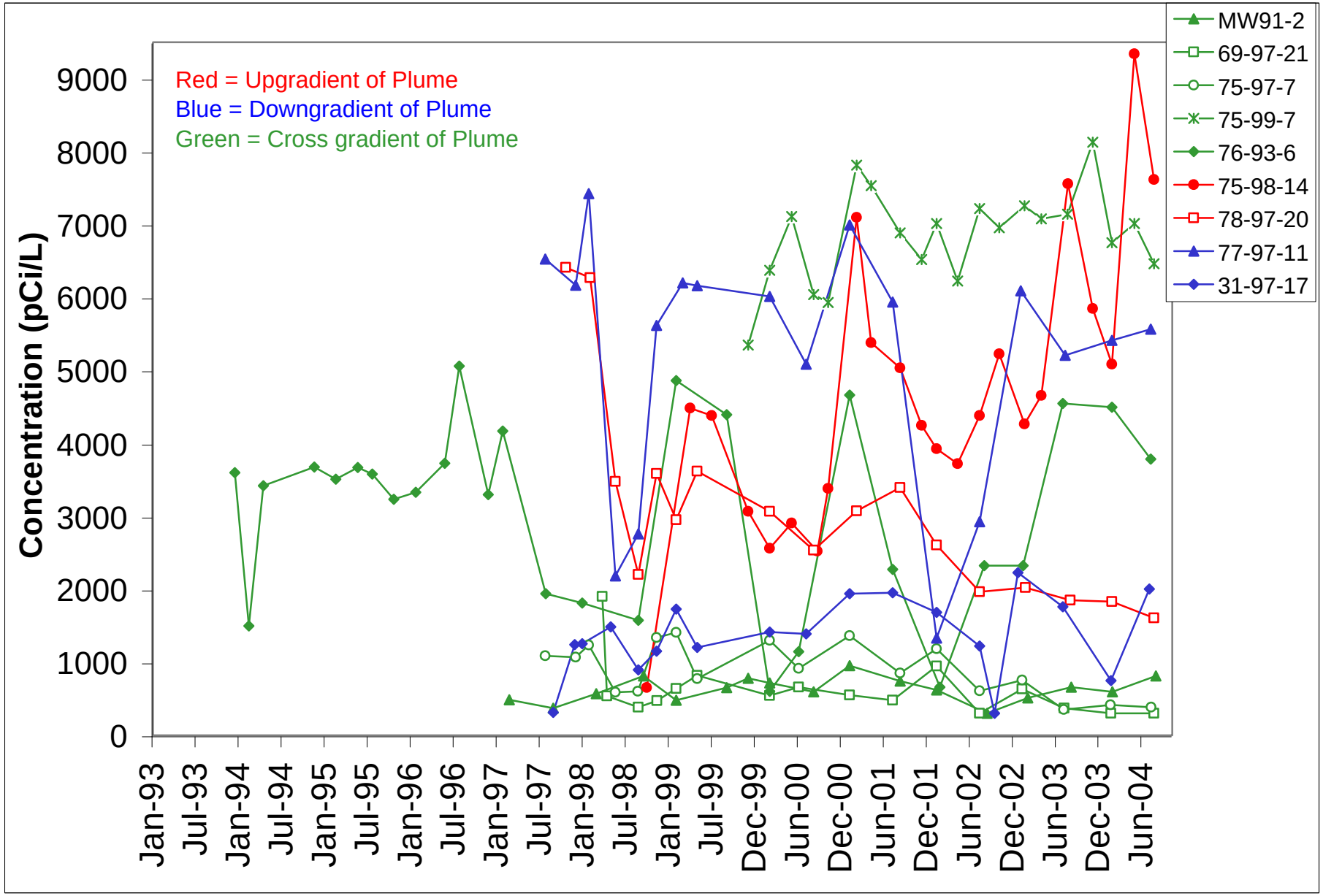


Figure 35a. Tritium Concentrations in Wells Monitoring the Source Area and Plume Core Area, Building 75 Tritium Plume



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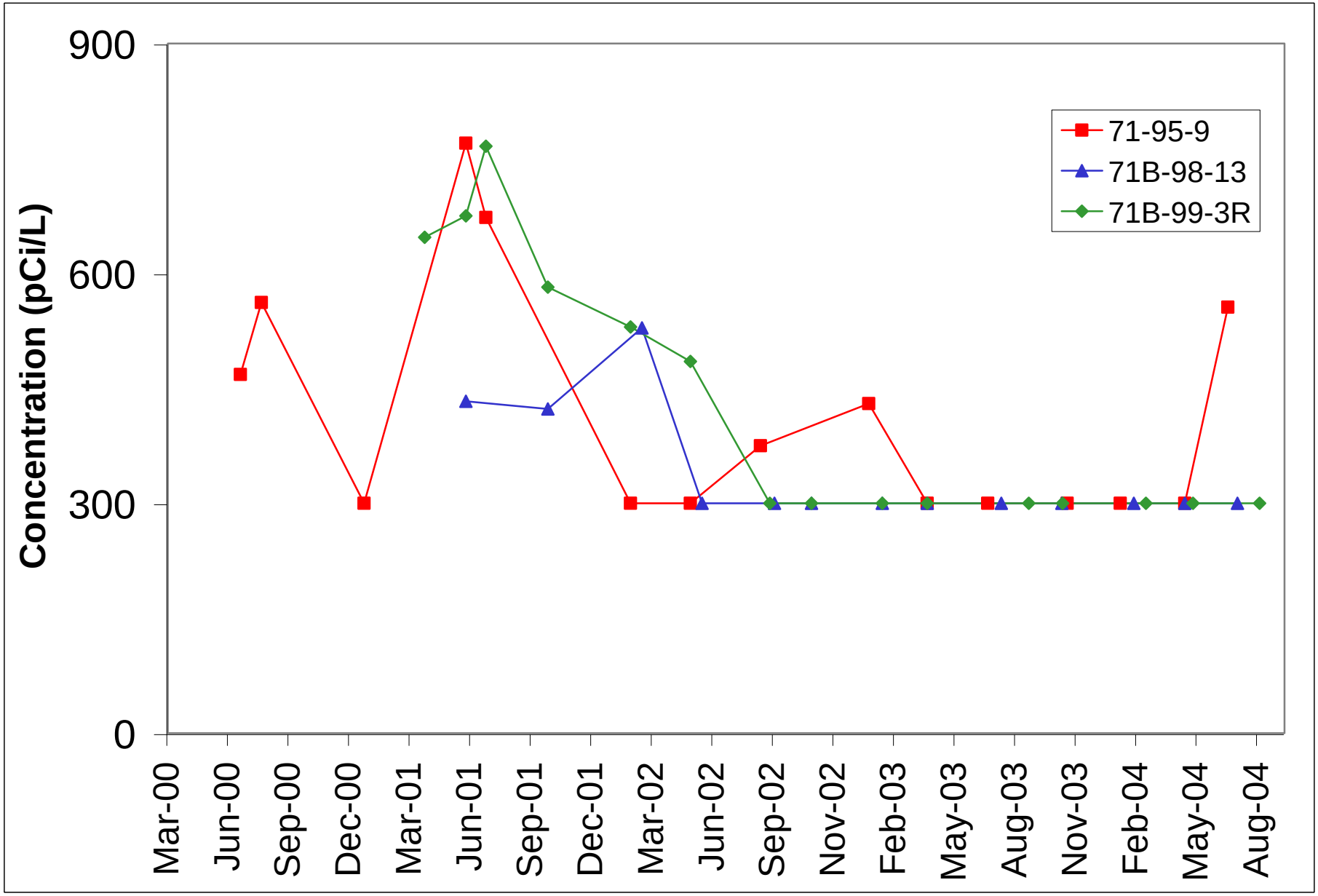

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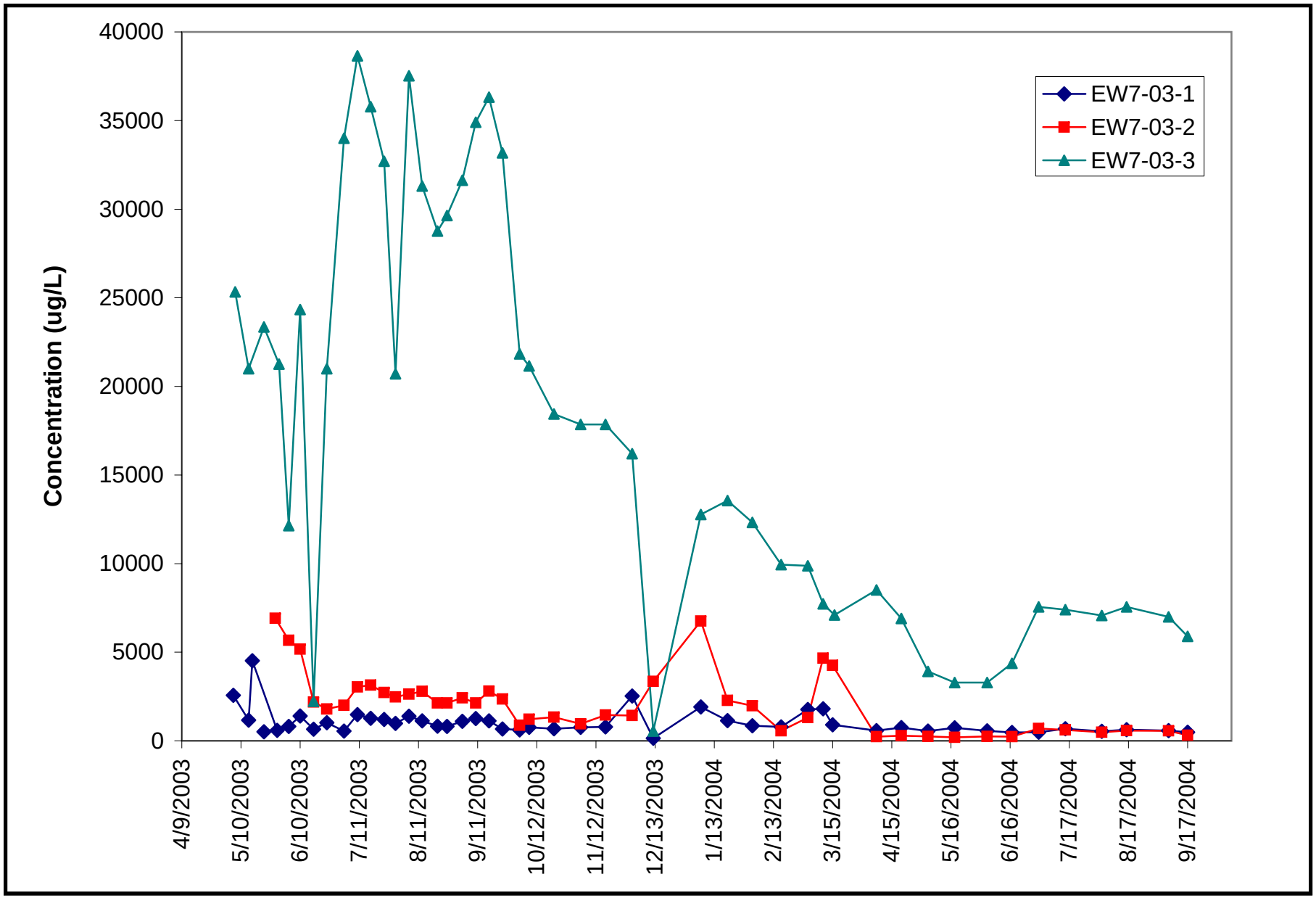

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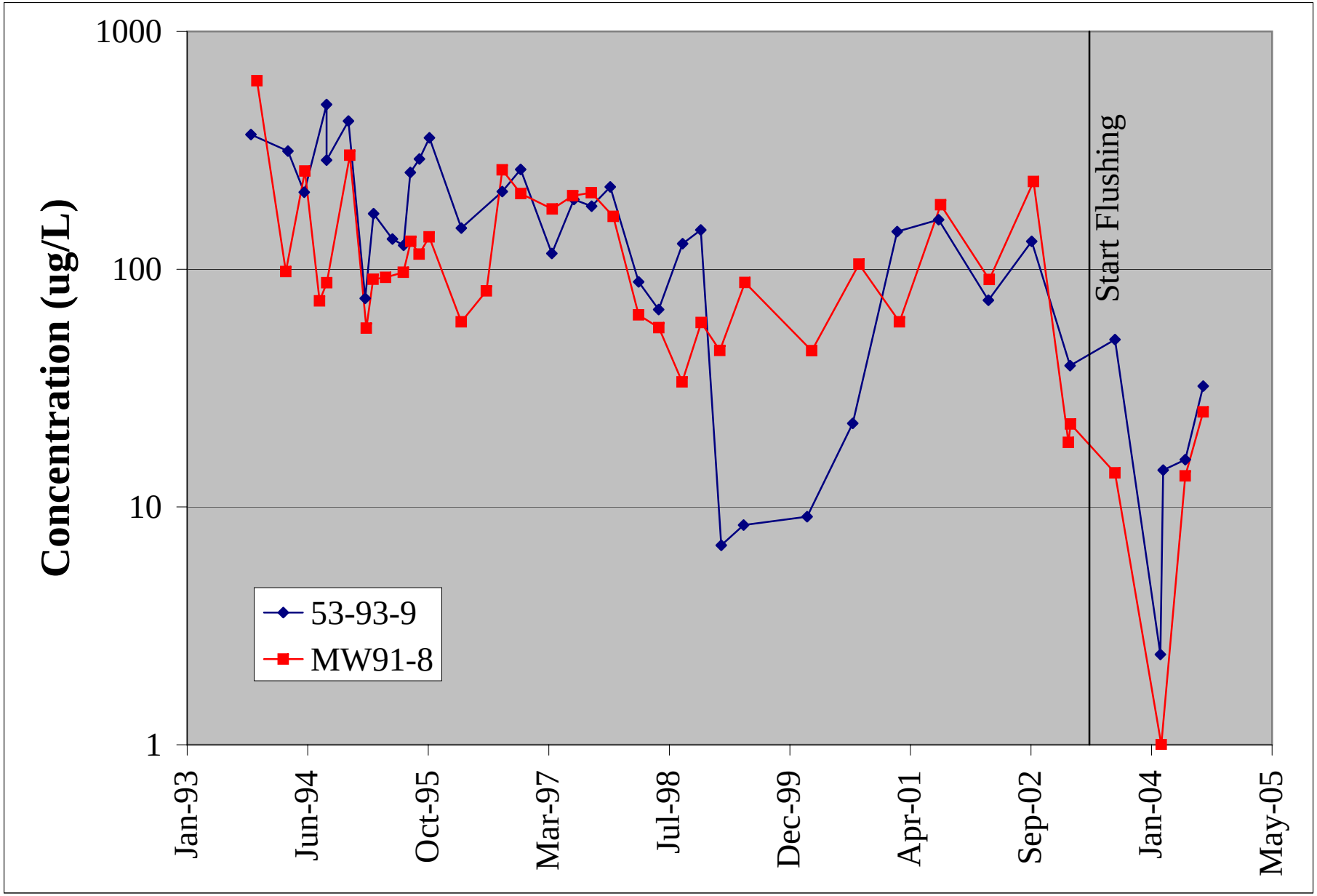

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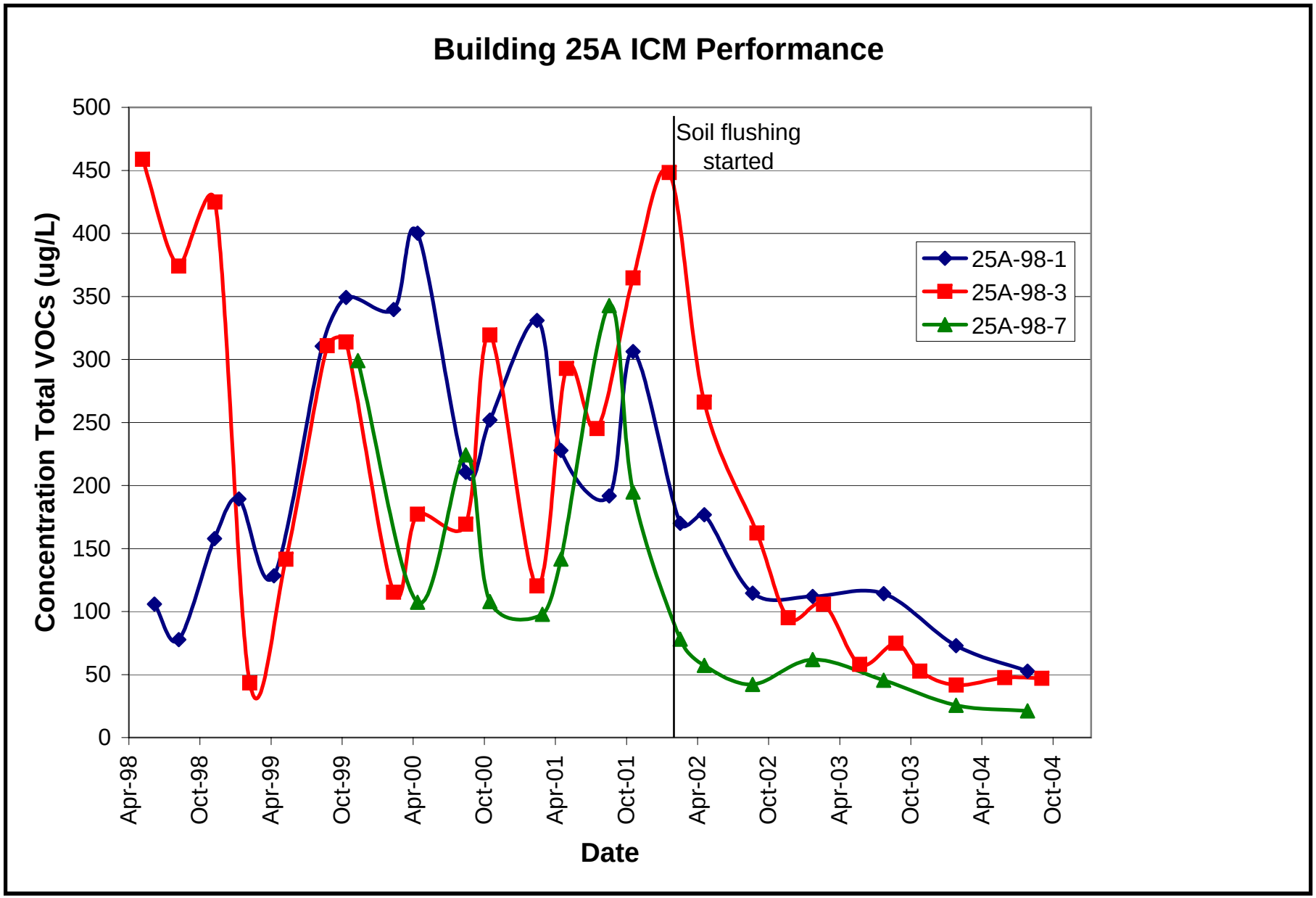

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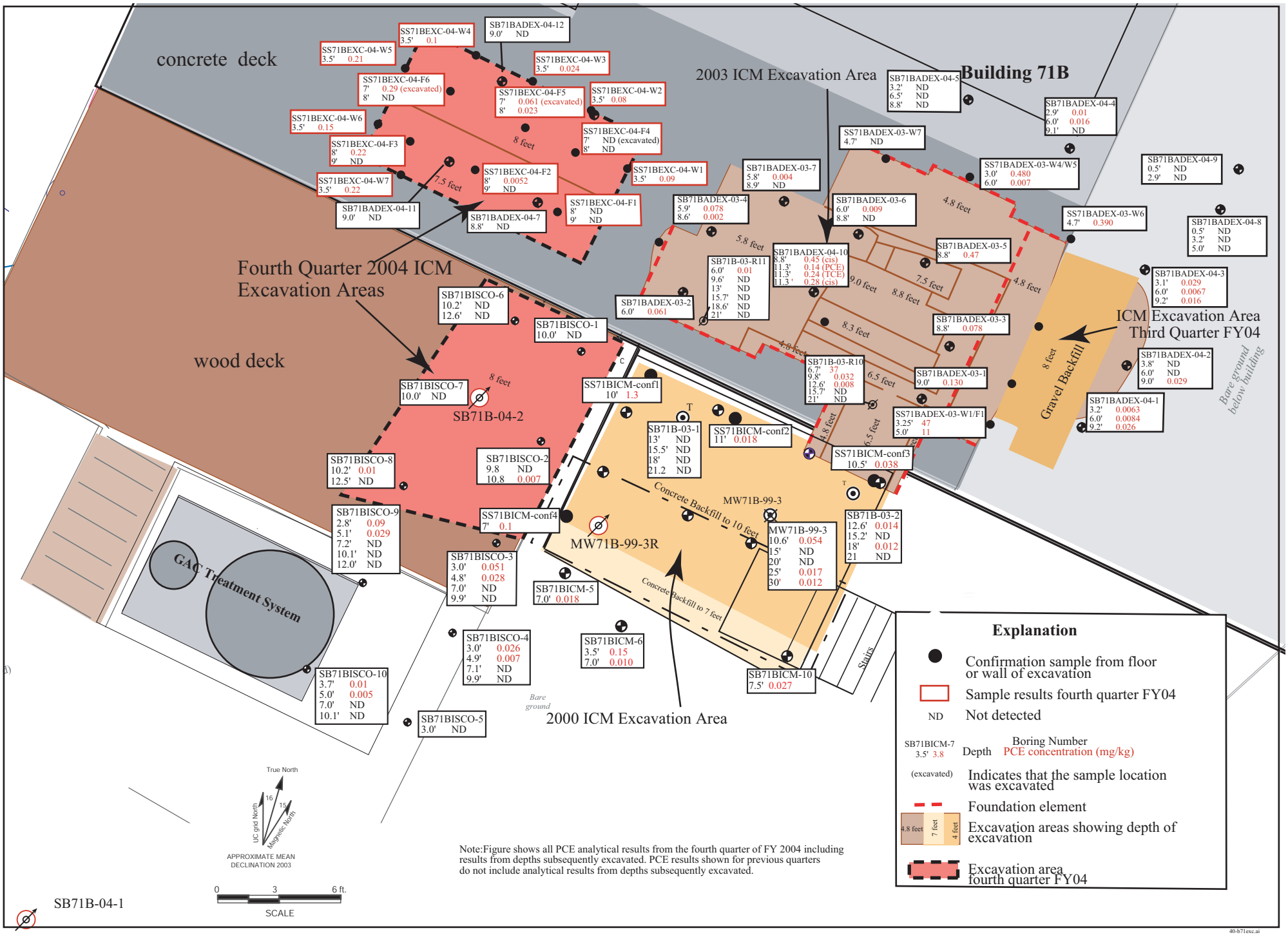

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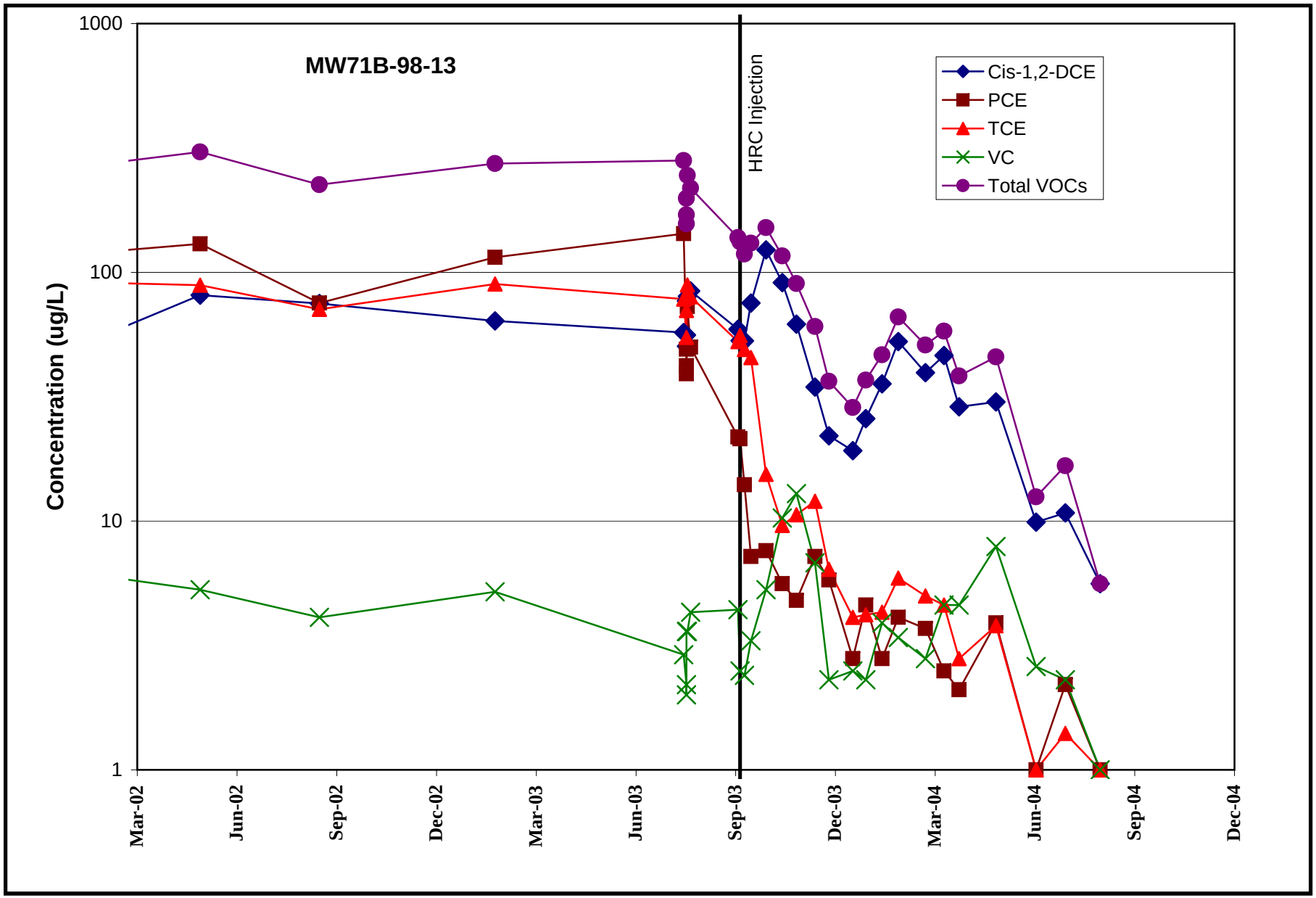

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Table 1
EPA Method 8260 Quantitation Limits
for Soil and Groundwater Samples
4th Quarter FY 2004

	Water Samples µg/L		Soil samples mg/kg
Compound	LBNL EML	BC Laboratories	BC Laboratories
Benzene	1.0	0.5	0.005
Bromobenzene	1.0	0.5	0.005
Bromochloromethane	2.0	0.5	0.005
Bromodichloromethane	1.0	0.5	0.005
Bromoform	2.0	0.5	0.005
Bromomethane	10.0	1	0.005
n-Butylbenzene	1.0	0.5	0.005
sec-Butylbenzene	1.0	0.5	0.005
tert-Butylbenzene	1.0	0.5	0.005
Carbon Tetrachloride	1.0	0.5	0.005
Chlorobenzene	1.0	0.5	0.005
Chlorodifluoromethane (Freon-22)	30.0		
Chloroethane	30.0	0.5	0.005
Chloroform	3.0	0.5	0.005
Chloromethane	10.0	0.5	0.005
2-Chlorotoluene	2.0	0.5	0.005
4-Chlorotoluene	2.0	0.5	0.005
Dibromochloromethane	2.0	0.5	0.005
1,2-Dibromo-3-chloropropane	2.0	1	0.005
1,2-Dibromoethane	2.0	0.5	0.005
Dibromomethane	1.0	0.5	0.005
1,2-Dichlorobenzene	1.0	0.5	0.005
1,3-Dichlorobenzene	1.0	0.5	0.005
1,4-Dichlorobenzene	1.0	0.5	0.005
Dichlorodifluoromethane (Freon-12)	3.0	0.5	0.005
1,1-Dichloroethane	1.0	0.5	0.005
1,2-Dichloroethane	2.0	0.5	0.005
1,1-Dichloroethene	1.0	0.5	0.005
cis-1,2-Dichloroethene	1.0	0.5	0.005
trans-1,2-Dichloroethene	1.0	0.5	0.005
Dichlorofluoromethane (Freon-21)	3.0		
1,2-Dichloropropane	1.0	0.5	0.005
1,3-Dichloropropane	1.0	0.5	0.005
2,2-Dichloropropane	1.0	0.5	0.005
1,1-Dichloropropene	1.0	0.5	0.005
cis-1,3-Dichloropropene	1.0	0.5	0.005
trans-1,3-Dichloropropene	1.0	0.5	0.005
1,2-Dichlorotetrafluoroethane (Freon-114)	3.0		
Dichlorotrifluoroethane (Freon-123)	1.0		
1,2-Dichlorotrifluoroethane (Freon-123A)	1.0		
Ethylbenzene	1.0	0.5	0.005
Hexachlorobutadiene	3.0	0.5	0.005
Isopropylbenzene	2.0	0.5	0.005
p-Isopropyltoluene	1.0	0.5	0.005
Methylene Chloride	1.0	1	0.01
Methyl tert-Butyl Ether	5.0	0.5	0.005
Naphthalene	2.0	0.5	0.005
n-Propylbenzene	1.0	0.5	0.005
Styrene	1.0	0.5	0.005
1,1,2,2-Tetrachloroethane	1.0	0.5	0.005
1,1,1,2-Tetrachloroethane	2.0	0.5	0.005
Tetrachloroethene	1.0	0.5	0.005
Toluene	1.0	0.5	0.005
1,2,3-Trichlorobenzene	2.0	0.5	0.005
1,2,4-Trichlorobenzene	1.0	0.5	0.005
1,1,1-Trichloroethane	1.0	0.5	0.005
1,1,2-Trichloroethane	1.0	0.5	0.005
Trichloroethene	1.0	0.5	0.005
Trichlorofluoromethane (Freon-11)	2.0	0.5	0.005
1,2,3-Trichloropropane	1.0	1	0.005
Trichlorotrifluoroethane (Freon-113)	1.0	0.5	0.005
1,2,4-Trimethylbenzene	1.0	0.5	0.005
1,3,5-Trimethylbenzene	1.0	0.5	0.005
Vinyl Chloride	1.0	0.5	0.005
Total-Xylene	2.0	1	0.01

= Compound not included in analysis

Table 2
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
Trip Blank		T-390	vvv	vv	vv							
Field Blank		T-389	vvvvvvv	vvvvvv	v	v	v				vvv	vvvvv
MW90-2[S]	2	T-233		v		v						
MW90-3[S]	1	T-71	v									v
MW90-4[A]	1	T-73	v									v
MW90-5[S]	1	T-74	v									v
MW91-1[A]	5	T-325	v								v	v
MW91-2[S]	5	T-326		v								v
MW91-3[n]	3											v
MW91-4[A]	3	T-327		v		v					v	v
MW91-5[A]	3	T-329	v									v
MW91-6[n]	3											v
MW91-8[S]	2	T-235		v								
MW91-9[A]	10	T-237	v									
MWP-1	15	T-76	v									v
MWP-2	8	T-366	v									v
MWP-4	14	T-238	v									v
MWP-5	14	T-240	v									v
MWP-6	14	T-242	v									v
MWP-7[T]	14	T-244	v									v
MWP-8	10	T-246	v									v
MWP-9	5	T-330	v									v
MWP-10[A]	5	T-332	v									v
MW62-B1A[A]	13	T-342	v				v					
MW62-B2[A]	13	T-343	v				v					
MW1-220[A]	2	T-232	v								v	
MW7-1[A]	2	T-149										
MW76-1[S]	4	T-313		v			v	v			v	v
51-92-2[A]	9	T-25	v								v	
88-92-4[A]	6	T-357	v									
37-92-5[n]	14										v	
37-92-6[T]	14	T-190	v									v
70-92-7[A]	8	T-349	v									
46-92-9[A]	7	T-192	v			v					v	
77-92-10[A]	5	T-319	v								v	v
26-92-11[A]	10	T-186		v								
61-92-12	5	T-300	v								v	v
74-92-13[n]	11						v					
83-92-14[n]	11						v					
46A-92-15[S]	1	T-22		v								v

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
7-92-16[S]	2	T-150		v					v			
6-92-17[A]	14	T-144	v									
37-92-18A[n]	14										v	v
7-92-19[S]	2	T-152		v								
27-92-20[S]	2	T-188		v								
53-92-21-130'	2	T-208		v								
53-92-21-147'	2	T-208										
53-92-21-167'	2	T-209										
53-92-21-193'	2	T-209										
69A-92-22[A]	3	T-303	v									v
75-92-23[A]	3	T-305	v									v
75B-92-24[A]	3	T-312		v								v
62-92-26	13	T-344	v									v
62-92-27	13	T-346	v									v
CD-92-28	OS	T-362	v								v	v
71-93-1[A]	1	T-60	v									v
71-93-2[S]	1	T-61	v									
58-93-3[S]	7	T-218		v			v					
6-93-4[S]	2	T-145		v					v			
76-93-6[A]	4	T-315	v				v	v				v
76-93-7[A]	4	T-316	v				v	v				v
77-93-8[n]	5											v
53-93-9[S]	2	T-210		v								
5-93-10[A]	10	T-143		v								
88-93-11A	6	T-358	v									v
46-93-12[S]	7	T-193		v								
88-93-13[A]	6	T-360	v				v					
52-93-14[S]	10	T-201		v								
25-93-15[A]	10	T-171		v								
53-93-16-42'[A]	2	T-212		v								
53-93-16-69'[S]	2	T-213		v								
53-93-17[A]	2	T-215		v								
51B-93-18A[S]	9	T-48		v							v	
46A-93-19[A]	1	T-24	v									
71-94-1[A]	1	T-63	v									
7-94-3[S]	2	T-154		v								
77-94-5[A]	5	T-320	v								v	v
77-94-6[A]	5	T-321	v									v, D
74-94-7	11	T-352	v				v					v
74-94-8	11	T-354	v				v					v

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
37-94-9[n]	14						v					v
52-94-10[A]	10	T-202	v									v
51-94-11[A]	1	T-26	v									
25-94-12[A]	10	T-172	v									
16-94-13[S]	10	T-168		v			v					
58A-94-14[S]	7	T-230		v								
51-94-15	7	T-197	v									
52-95-2B[S]	10	T-203		v								v
16-95-3[S]	10	T-170		v								
25A-95-4[A]	10	T-178	v								v	
25-95-5[A]	10	T-173	v								v	
74-95-6[A]	11	T-356	v				v					
83-95-7[n]	11						v					
71-95-8[A]	1	T-65	v									v
71-95-9[A]	1	T-66	v									v
58-95-11[A]	7	T-220		v								
53-95-12[S]	2	T-216		v		v						
52B-95-13[S]	2	T-207		v			v			v		
6-95-14[S]	2	T-147		v					v			
25A-95-15[S]	10	T-179		v								
62-95-16[A]	13	T-348										
58-95-18[S]	7	T-221		v								
58-95-19[S]	7	T-222		v								
58-95-20[S]	7	T-224		v								
7B-95-21	2	T-162		v							v, D	
7-95-22	2	T-156		v								
7-95-23	2	T-158		v, D							v	
7B-95-24	2	T-164		v, D							v	
7B-95-25	2	T-166		v								
25-95-26[A]	10	T-174	v									
25-95-27	10	T-175	v									v
53-96-1[A]	2	T-217		v								
4-96-2[A]	10	T-141	v								v	
51-96-3	7	T-199	v									
88-96-4[A]	6	T-361	v									
46-96-10	7	T-195	v									
58-96-11	2	T-226		v		v						
70A-96-13[A]	8	T-350	v									
70A-96-14[A]	8	T-351	v									
51-96-15[S]	9	T-27	v									

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
51-96-16^{S}	9	T-28		v								
51-96-17^{A}	9	T-29		v								
51-96-18^{S}	9	T-30	v	v	v							
51-96-19^{A}	9	T-32		v								
75-96-20^{S}	3	T-306	v									v
64-97-1^{A}	9	T-58		v							v	
64-97-2^{S}	9	T-59		v							v	
51-97-3^{A}	9	T-33		v								
51-97-4^{A}	9	T-34	v									
75-97-5^{S}	3	T-307		v		v					v	v, D
75-97-6^{n}	3											v
75-97-7^{n}	3											v
69-97-8^{S}	3	T-302		v		v					v	v
77-97-9^{A}	5	T-322	v									v, D
77-97-11^{A}	5	T-323	v									v
51-97-12^{S}	9	T-35		v								
51-97-13^{S}	9	T-36		v								
51-97-14^{A}	9	T-37	v									
51-97-15	9	T-38	v									
51-97-16^{S}	9	T-39										
31-97-17^{A}	5	T-298	v									v
31-97-18^{n}	5	T-298										v
78-97-20^{A}	4	T-324		v								v
69-97-21^{n}	3										v	v
71-97-23^{S}	1	T-67	v									
25A-98-1^{S}	10	T-180		v								
56-98-2^{S}	9	T-56	v									
25A-98-3^{S}	10	T-181			v							
51-98-5^{S}	9	T-40		v								
25A-98-6^{A}	10	T-182										
25A-98-7^{S}	10	T-182	v									
52A-98-8A^{n}	10	T-205										
52A-98-8B^{S}	10	T-205		v							v	
52-98-9^{n}	10	T-204		v								
25-98-10^{S}	10	T-177	v								v	
71B-98-13^{S}	1	T-68		v							v	v
75-98-14^{S}	3	T-308		v						v		v, D
75-98-15^{n}	3									v	v	v
31-98-17	5	T-299	v									v
63-98-18^{S}	15	T-57	v									

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
76-98-21[S]	4	T-317		v								v
76-98-22	4	T-318	v									v
51-99-1[A]	9	T-41	v									
25A-99-2[S]	10	T-183		v							v	
71B-99-3R	1	T-69		v								v
75-99-4[A]	3	T-309	v							v	v	v
25A-99-5[A]	10	T-184	v									
75-99-6[n]	3									v		v
75-99-7[S]	3	T-310		v						v		v
75-99-8[n]	3									v	v	v
51-00-1[A]	9	T-42	v								v	
71B-00-2	1	T-70	v								v	
58A-00-3	7	T-231	v								v	
7-00-4	2	T-160	v	v	v						v	
25A-00-5	10	T-185	v								v	
52A-00-6	10	T-206	v								v	
75A-00-7	3	T-311		v							v	v
51-00-8	9	T-43			v							
51-00-9	9	T-44		v						v	v	
51-00-10	9	T-45		v						v	v	
69A-00-11	3	T-304	v								v	v
58-00-12	7	T-228	v	v, D	v							
51L-01-1A	9	T-49	v								v	
51L-01-1B	9	T-49	v								v	
51L-01-3	9	T-50	v								v	
51L-01-4	9	T-51	v								v	
51L-01-5A	9	T-52	v								v	
51L-01-5B	9	T-53	v								v	
51L-01-6	9	T-54	v								v	
51L-01-7	9	T-55	v								v	
51A-01-10A	9	T-46	v								v, D	
51A-01-11	9	T-47	v								v	
51L-02-1	9	T-55		v							v	
OW3-225	8	T-364	v									v
Slope Stability and Indicator Facilities												
SSW19-63	2	T-294	v									
SSW17-130	5											G
SSW19-130	5											G
SSW20-130	5											G
SSW21-130	5											G

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	VOCs - 8260 Jul	VOCs - 8260 Aug	VOCs - 8260 Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
SI3-63	9	T-140	v									
SI15-102	2	T-294	v									
Temporary Groundwater Sampling Points												
SB5A-98-1	10	T-248			v							
SB6-96-1	2	T-248			v							
SB6-96-2	2	T-249			v	v						
SB7-97-1	2	T-249			v	v						
SB16-98-1	10	T-251			v					v		
SB17-02-1	2	T-252			v						v	
SB25A-96-3	10	T-252		v								
SB25A-02-1	10	T-253			v							
SB31-02-1	5											v
SB31-02-2	5											v
SB31-02-4	5											v
SB31-02-5	5											v
SB31-02-6	5											v
SB31-02-7	5											v
SB31-03-1	5											v
SB31-03-2	5											v
SB31-03-3	5											
SB31-03-4	5											v
SB44-98-1	10	T-254			v							
SB51-96-6	9	T-78			v							
SB51-96-20R	9										v	
SB51-96-22	9										v	
SB51-98-1	9	T-78		v						v		
SB51-98-4	9	T-79		v						v		
SB51-98-6	9	T-80		v						v		
SB51-04-1	9	T-82			v							
SB51A-01-8B	9	T-82			v							
SB51L-98-1A	9	T-87			v							
SB51L-02-3	9	T-88		v	v							
SB51L-03-1	9	T-89		v	v							
SB51L-03-2	9	T-90		v	v							
SB52A-98-1	10	T-255			v							
SB53-96-3	2	T-256			v							
SB58-01-02	7	T-258		v								
SB58-95-1	7	T-259		v								
SB58-95-2	7	T-259		v								
SB58-96-1	7	T-260		v								
SB58-96-2	7	T-262		v								
SB58-97-1	7	T-263		v								

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

						Fuel						
		VOCs - 8260				Scan	TPH-D	TPH-G	TPH-K	PCBs		
Location	Area	Page #	Jul	Aug	Sep	8015	8015	8015	8015	8082	Metals	Tritium
SB58-97-2	7	T-265			v							
SB58-98-1	7	T-265			v							
SB58-98-6		T-266			v							
SB58-98-7	7	T-267			v							
SB58-02-1	7	T-268		v								
SB58-02-2	7	T-268		v								
SB64-98-8	9	T-92	v	v	v							
SB64-98-12	9	T-94	v	v	v							
SB64-98-13	9	T-96			v							
SB64-98-17	9	T-97	v	v	v							
SB64-99-4	9	T-99	v	v	v							
SB64-99-5	9	T-100	v	v	v							
SB64-99-6	9	T-102	v	v	v							
SB64-00-1	9	T-103	v	v	v							
SB64-00-2	9	T-105	v	v	v							
SB64-02-1A	9	T-107			v							
SB64-02-1B	9	T-108			v							
SB64-02-1C	9	T-108			v							
SB64-02-1D	9	T-109			v							
SB64-02-1E	9	T-109			v							
SB64-02-1F	9	T-110			v							
SB64-02-2A	9	T-111			v							
SB64-02-2B	9	T-111			v							
SB64-02-2C	9	T-111			v							
SB64-02-2D	9	T-112			v							
SB64-02-2E	9	T-112			v							
SB64-02-2F	9	T-113			v							
SB64-03-1A	9	T-114	v	v	v							
SB64-03-1B	9	T-115	vv	v	v							
SB64-03-2	9	T-117	v	v	v							
SB64-03-3	9	T-118	v	v	v							
SB64-03-4	9	T-118	v	v	v							
SB64-03-5	9	T-119	v	v	v							
SB64-03-6	9	T-120	v	v	v							
SB64-03-7	9	T-121	v	v	v							
SB64-03-8	9	T-121	v	v	v							
SB64-03-12	9	T-122			v							
SB64-03-13	9	T-123			v							
SB69-02-1A	3	T-334		v								v
SB69-02-1B	3	T-334		v								v

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	Jul	Aug	Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
SB69-02-2A	3	T-334		v								v
SB69-02-2B	3	T-334		v								v
SB69-02-3A	3	T-335		v								v
SB69-02-3B	3	T-335		v								v
SB69A-99-1	3	T-335		v								v
SB71B-99-1	1	T-123			v							
SB71B-99-2	1	T-124			v							
SB71B-03-1	1	T-124	vvvvv	vvvvv	vv							
SB71B-03-2	1	T-129	v	vvvvv	vv							
SB71B-04-1	1	T-133			vv							
SB71H-98-1	1	T-133			v							
SB75-02-1	3	T-336	v	v							v	v
SB75A-02-1A	3	T-338		v								v
SB75A-02-1B	3	T-338		v								v
W76-97-3	4	T-339			v		v	v				
W76-97-4	4	T-340			v		v	v				
W76-97-5	4	T-341			v		v	v				
SB77-02-1	5											v
Other Locations												
MP7-99-1B	2	T-294		v, D							v, D	
MP7-99-2B	2	T-294		v, D							v	
Extraction Wells												
EW7-96-1	2	T-270	vv	vv	vv							
EW7-96-2	2	T-271	vv	vv	vv							
EW7-96-4R	2	T-273	vv	vv	vv							
IW7-02-1	2	T-289	vv	vv	vv							
IW7-02-6	2	T-291	vv	vv	vv							
EW7-03-1	2	T-274	vv	vv	vv							
EW7-03-2	2	T-276	vv	vv	vv							
EW7-03-3	2	T-278	vv	vv	vv							
DPE7-03-1	2	T-280	vv	vv	vv							
DPE7-03-2	2	T-282	vv	vv	vv							
DPE7-03-3	2	T-283	vv	vv	vv							
EW51L-99-1	9	T-135	vv	vv	vv							
EW51L-00-1	9	T-136	vv	vv	vv							
EW58E-98-1	7	T-285		v								
EW58E-98-2	7	T-285		v								
EW58E-98-3	7	T-286		v								
EW58E-98-4	7	T-286		v								
EW58E-98-5	7	T-287		v								
EW58E-98-6	7	T-287		v								

Table 2 (Cont'd)
GROUNDWATER SAMPLING LOCATIONS AND ANALYTICAL METHODS
4TH QUARTER FY 2004

Location	Area	VOCs - 8260 Page #	Jul	Aug	Sep	Fuel Scan 8015	TPH-D 8015	TPH-G 8015	TPH-K 8015	PCBs 8082	Metals	Tritium
EW58E-98-7	7	T-287		v								
EW58E-98-8	7	T-288		v								
EW58-02-1[T]	9	T-288	v	v	v							
EW64-00-1[T]	9	T-138	v	vv	v							
EW64-03-1[T]	9	T-139	v	v	v							

= all compounds less than Quantitation Limit or Minimum Detectable Activity (Radionuclides)

Unless noted otherwise, wells are sampled quarterly for VOCs
[A] = Well is on annual sampling schedule for VOCs
[d] = Well has been properly abandoned
[n] = Well has been approved for no further VOC sampling
[S] = Well is on semi-annual sampling schedule for VOCs
[T] = Treatment system influent samples
D - each D represents one duplicate sample
G - each G represents one grab sample
S - each S represents one split sample
OS = Offsite well
v = each check represents one sample taken
Analytical Methods:
8260 = Volatile Organics
Fuel Scan = Hydrocarbon range includes: Light Naptha, Aviation Gas, Stoddard Solvent, Heavy Naptha, Gasoline, JP4, JP5, JP6, JP8, Kerosene, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40
TPH-D = Diesel Range Organics, EPA Method 8015m or 8015B-SVOA
TPH-G = Gasoline Range Organics, EPA Method 8015m
TPH-K = TPH-Kerosene, EPA Method 8015m
PCBs = Polychlorinated Biphenyls, EPA Method 8082

Table 3
Groundwater Elevations in LBNL Monitoring Wells
4th Quarter FY 2004

Well No.	Top of Casing Elevation	Current Quarter Date	Current Quarter Depth to water	Current Quarter Elevation	Previous Elevation	Change from Previous Quarter
Bevalac Area						
46A-92-15	830.10	8/25	17.80	812.30	816.55	-4.25
46A-93-19	809.77	8/25	49.04	760.73	760.72	0.01
51-92-2	724.69	8/25	6.83	717.86	720.71	-2.85
51-94-11	756.83	8/25	15.46	741.37	745.32	-3.95
51-96-15	709.83	8/25	20.96	688.87	688.85	0.02
51-96-16	709.72	8/25	17.31	692.41	692.18	0.23
51-96-17	709.64	8/25	17.17	692.47	697.40	-4.93
51-96-18	710.76	8/24	7.27	703.49	702.29	1.20
51-96-19	709.40	8/25	7.05	702.35	702.41	-0.06
51-97-3	709.81	8/25	34.58	675.23	675.07	0.16
51-97-4	709.66	8/25	60.12	649.54	666.38	-16.84
51-97-12	709.37	8/25	32.58	676.79	676.51	0.28
51-97-13	709.48	8/25	32.31	677.17	677.20	-0.03
51-97-14	708.89	8/25	48.82	660.07	660.46	-0.39
51-97-15	706.11	8/25	71.55	634.56	634.47	0.09
51-97-16	709.58	8/25	Dry		Dry	
51-98-5	709.63	8/25	46.73	662.90	665.51	-2.61
51-99-1	724.44	9/29	10.88	713.56	713.48	0.08
51-00-1	725.28	8/25	14.40	710.88	710.77	0.11
51-00-8	682.11	8/25	24.39	657.72	657.44	0.28
51-00-9	698.16	8/25	2.96	695.20	695.30	-0.10
51-00-10	698.18	8/25	2.98	695.20	695.29	-0.09
51A-01-10A	709.78	8/25	12.56	697.22	698.01	-0.79
51A-01-11	709.74	8/25	0.00	709.74	709.74	0.00
51B-93-18A	709.95	8/25	8.73	701.22	700.98	0.24
51L-01-1A	710.04	8/25	7.22	702.82	702.86	-0.04
51L-01-1B	710.04	8/25	13.62	696.42	698.87	-2.45
51L-01-3	709.54	8/25	21.31	688.23	690.83	-2.60
51L-01-4	709.87	8/25	21.84	688.03	690.95	-2.92
51L-01-5A	709.96	8/25	30.66	679.30	678.22	1.08
51L-01-5B	709.94	8/25	46.14	663.80	664.11	-0.31
51L-01-6	709.80	8/25	26.02	683.78	683.99	-0.21

Well No.	Top of Casing Elevation	Current Quarter Date	Current Quarter Depth to water	Current Quarter Elevation	Previous Elevation	Change from Previous Quarter
51L-01-7	709.76	8/25	46.66	663.10	648.03	15.07
51L-02-1	709.74	8/25	21.80	687.94	690.59	-2.65
56-98-2	709.76	8/25	16.79	692.97	692.94	0.03
63-98-18	709.99	8/25	19.86	690.13	691.01	-0.88
64-97-1	709.94	8/25	7.89	702.05	699.31	2.74
64-97-2	709.65	8/25	10.26	699.39	704.67	-5.28
71-93-1	872.39	8/25	37.76	834.63	836.18	-1.55
71-93-2	844.39	8/25	39.03	805.36	805.65	-0.29
71-94-1	845.84	8/25	40.26	805.58	805.44	0.14
71-95-8	839.09	8/25	19.21	819.88	821.67	-1.79
71-95-9	854.18	8/25	20.92	833.26	831.41	1.85
71-97-23	844.45	8/25	46.67	797.78	799.63	-1.85
71B-98-13	832.33	8/25	17.74	814.59	814.41	0.18
71B-99-3R	840.13	8/25	20.15	819.98	824.18	-4.20
71B-00-2	832.41	8/25	37.85	794.56	783.89	10.67
MW90-3	820.60	8/25	41.97	778.63	779.25	-0.62
MW90-4	746.15	8/25	7.58	738.57	739.09	-0.52
MW90-5	745.75	8/25	18.12	727.63	728.71	-1.08
MWP-1	630.65	8/25	43.24	587.41	587.49	-0.08
Old Town						
4-96-2	912.64	8/26	38.06	874.58	876.64	-2.06
5-93-10	914.90	8/25	23.94	890.96	892.68	-1.72
6-92-17	891.20	8/25	12.60	878.60	879.46	-0.86
6-93-4	881.60	8/25	21.81	859.79	850.43	9.36
MW7-1	884.13	8/25	15.98	868.15	871.85	-3.70
7-92-16	882.40	8/25	21.59	860.81	850.48	10.33
7-92-19	884.80	8/25	23.13	861.67	866.07	-4.40
7-94-3	882.88	8/25	22.68	860.20	863.50	-3.30
7-95-22	882.16	8/25	33.49	848.67	862.70	-14.03
7-95-23	882.37	8/25	30.08	852.29	859.34	-7.05
7-00-4	883.18	8/25	96.84	786.34	786.31	0.03
7B-95-21	883.63	8/25	36.65	846.98	850.99	-4.01
7B-95-24	883.88	8/25	54.89	828.99	837.04	-8.05

All Measurements in feet

Table 3 (Cont'd)
Groundwater Elevations in LBNL Monitoring Wells
4th Quarter FY 2004

Well No.	Top of Casing Elevation	Current Quarter			Previous Elevation	Change from Previous Quarter
		Date	Depth to water	Elevation		
7B-95-25	882.03	8/25	21.78	860.25	864.76	-4.51
16-94-13	892.50	8/25	17.68	874.82	877.05	-2.23
16-95-3	901.52	8/25	18.39	883.13	885.17	-2.04
25-93-15	936.44	8/25	65.50	870.94	871.75	-0.81
25-94-12	937.59	8/25	36.80	900.79	901.44	-0.65
25-95-5	932.88	8/26	76.76	856.12	856.79	-0.67
25-95-26	935.81	8/25	39.25	896.56	897.09	-0.53
25-95-27	859.83	8/25	30.70	829.13	830.40	-1.27
25-98-10	934.42	8/25	77.08	857.34	858.35	-1.01
25A-95-4	938.35	8/25	23.34	915.01	915.62	-0.61
25A-95-15	931.68	8/25	34.80	896.88	897.67	-0.79
25A-98-1	936.88	8/25	35.28	901.60	904.32	-2.72
25A-98-3	940.14	8/25	35.52	904.62	906.93	-2.31
25A-98-6	939.90	8/25	32.98	906.92	907.74	-0.82
25A-98-7	942.71	8/25	19.04	923.67	923.39	0.28
25A-99-2	940.45	8/25	26.37	914.08	914.30	-0.22
25A-99-5	940.16	8/25	29.36	910.80	910.80	0.00
25A-00-5	933.12	8/25	69.15	863.97	859.60	4.37
26-92-11	936.19	8/25	18.50	917.69	920.22	-2.53
27-92-20	881.10	8/25	48.76	832.34	834.38	-2.04
37-92-5	881.56	8/25	39.90	841.66	844.28	-2.62
37-92-18A	861.20	8/25	47.52	813.68	813.69	-0.01
37-94-9	856.51	8/25	23.97	832.54	833.43	-0.89
46-92-9	805.30	7/26	71.04	734.26	733.65	0.61
46-93-12	807.57	8/26	7.60	799.97	799.99	-0.02
46-96-10	790.35	8/26	33.55	756.80	757.02	-0.22
51-94-15	771.17	8/25	36.46	734.71	736.42	-1.71
51-96-3	766.44	8/25	12.98	753.46	756.45	-2.99
52-93-14	900.03	8/25	38.76	861.27	861.00	0.27
52-94-10	906.04	8/26	56.83	849.21	849.24	-0.03
52-95-2A	910.27	8/26	43.92	866.35	866.60	-0.25
52-95-2B	910.23	8/26	63.00	847.23	851.87	-4.64
52-98-9	910.86	8/23	62.55	848.31	852.46	-4.15
52A-98-8A	913.56	8/26	31.69	881.87	881.91	-0.04

Well No.	Top of Casing Elevation	Current Quarter			Previous Elevation	Change from Previous Quarter
		Date	Depth to water	Elevation		
52A-98-8B	913.51	8/23	64.50	849.01	854.34	-5.33
52A-00-6	917.34	8/26	60.21	857.13	856.82	0.31
52B-95-13	887.40	8/25	22.35	865.05	868.05	-3.00
53-92-21-130'	886.97	8/25	71.34	815.63	815.93	-0.30
53-92-21-147'	886.99	8/25	68.88	818.11	818.11	0.00
53-92-21-167'	886.97	8/25	69.83	817.14	817.28	-0.14
53-92-21-193'	886.98	8/25	86.16	800.82	800.25	0.57
53-93-9	900.68	8/25	63.02	837.66	840.25	-2.59
53-93-16-42'	887.45	8/25	40.75	846.70	847.98	-1.28
53-93-16-69'	887.40	8/25	53.12	834.28	843.75	-9.47
53-93-17	902.62	8/25	67.75	834.87	837.91	-3.04
53-95-12	867.45	8/25	33.79	833.66	837.23	-3.57
53-96-1	887.64	8/25	52.66	834.98	845.27	-10.29
58-93-3	830.06	8/26	4.94	825.12	826.01	-0.89
58-95-11	831.62	8/26	0.06	831.56	830.74	0.82
58-95-18	788.61	8/26	9.87	778.74	778.84	-0.10
58-95-19	834.33	8/26	17.98	816.35	817.21	-0.86
58-95-20	818.81	8/25	19.62	799.19	801.76	-2.57
58-96-11	848.23	8/26	32.43	815.80	816.12	-0.32
58-00-12	860.62	8/23	24.38	836.24	840.71	-4.47
58A-94-14	821.73	8/25	22.45	799.28	798.87	0.41
58A-00-3	822.54	8/26	76.31	746.23	743.30	2.93
MW1-220	901.64	8/25	86.58	815.06	822.43	-7.37
MW90-2	880.78	8/25	22.66	858.12	859.47	-1.35
MW91-8	887.02	8/25	53.92	833.10	835.70	-2.60
MW91-9	915.67	8/26	26.42	889.25	892.26	-3.01
MWP-4	831.56	8/25	48.21	783.35	783.22	0.13
MWP-5	852.37	8/25	96.62	755.75	755.96	-0.21
MWP-6	845.44	8/25	27.18	818.26	819.52	-1.26
MWP-8	872.34	8/25	28.02	844.32	844.96	-0.64
Support Services						
31-97-17	746.15	8/26	21.04	725.11	721.87	3.24
31-97-18	747.80	8/26	22.87	724.93	725.71	-0.78
31-98-17	693.47	8/26	12.42	681.05	673.19	7.86

All Measurements in feet

Table 3 (Cont'd)
Groundwater Elevations in LBNL Monitoring Wells
4th Quarter FY 2004

Well No.	Top of Casing Elevation	Current Quarter			Previous Elevation	Change from Previous Quarter
		Date	Depth to water	Elevation		
61-92-12	843.90	8/25	81.62	762.28	765.26	-2.98
69-97-8	975.75	8/25	43.50	932.25	932.54	-0.29
69-97-21	1003.40	8/25	29.22	974.18	977.72	-3.54
69A-92-22	977.06	8/25	22.83	954.23	954.65	-0.42
69A-00-11	977.05	7/28	24.42	952.63	952.47	0.16
75-92-23	972.10	8/25	30.87	941.23	942.08	-0.85
75-96-20	979.07	8/25	12.90	966.17	967.25	-1.08
75-97-5	963.73	8/25	54.75	908.98	916.27	-7.29
75-97-6	967.89	8/25	59.81	908.08	912.29	-4.21
75-97-7	970.70	8/25	56.40	914.30	914.92	-0.62
75-98-14	977.94	8/25	22.13	955.81	956.14	-0.33
75-98-15	977.97	8/25	19.88	958.09	965.61	-7.52
75-99-4	977.90	8/25	13.95	963.95	965.11	-1.16
75-99-6	979.94	8/25	14.38	965.56	964.25	1.31
75-99-7	977.92	8/25	12.57	965.35	965.87	-0.52
75-99-8	979.34	8/25	11.81	967.53	966.22	1.31
75A-00-7	978.32	8/25	138.40	839.92	837.97	1.95
75B-92-24	956.90	8/25	40.66	916.24	917.39	-1.15
MW76-1	923.70	8/25	20.40	903.30	904.48	-1.18
76-93-6	948.61	8/25	19.88	928.73	930.81	-2.08
76-93-7	924.85	8/25	22.20	902.65	905.77	-3.12
76-98-21	923.20	8/25	23.52	899.68	900.11	-0.43
76-98-22	904.57	8/26	18.47	886.10	889.11	-3.01
77-92-10	879.11	8/25	51.07	828.04	849.90	-21.86
77-93-8	879.01	8/25	17.40	861.61	866.19	-4.58
77-94-5	878.96	8/25	35.70	843.26	845.35	-2.09
77-94-6	876.76	8/25	52.60	824.16	827.88	-3.72
77-97-9	888.69	8/25	23.37	865.32	867.21	-1.89
77-97-11	814.67	8/25	33.30	781.37	782.31	-0.94
78-97-20	949.54	8/25	19.93	929.61	931.33	-1.72

Well No.	Top of Casing Elevation	Current Quarter			Previous Elevation	Change from Previous Quarter
		Date	Depth to water	Elevation		
MW91-1	877.98	8/25	23.93	854.05	854.80	-0.75
MW91-2	877.27	8/25	44.27	833.00	836.07	-3.07
MW91-3	981.69	8/25	15.25	966.44	967.67	-1.23
MW91-4	978.55	8/25	113.89	864.66	861.27	3.39
MW91-5	978.28	8/25	24.37	953.91	955.85	-1.94
MW91-6	975.22	8/25	31.02	944.20	945.79	-1.59
MWP-9	818.83	8/25	33.82	785.01	786.34	-1.33
MWP-10	809.74	8/25	52.10	757.64	756.00	1.64
Outlying Areas						
MW62-B1A	757.70	8/25	17.75	739.95	742.72	-2.77
MW62-B2	756.60	8/25	17.70	738.90	741.64	-2.74
62-92-26	773.70	8/25	46.07	727.63	727.89	-0.26
62-92-27	769.90	8/25	37.96	731.94	735.62	-3.68
62-95-16	741.06	8/25	Inaccessible		724.94	
70-92-7	762.93	8/25	20.20	742.73	743.37	-0.64
70A-96-13	711.87	8/25	112.48	599.39	599.28	0.11
70A-96-14	716.64	8/25	119.70	596.94	596.87	0.07
74-92-13	834.90	8/25	14.40	820.50	821.42	-0.92
74-94-7	819.82	8/25	14.44	805.38	806.07	-0.69
74-94-8	815.74	8/25	20.31	795.43	795.64	-0.21
74-95-6	838.66	8/25	19.21	819.45	820.38	-0.93
83-92-14	830.09	8/25	15.50	814.59	817.56	-2.97
83-95-7	840.75	8/25	2.75	838.00	837.99	0.01
88-92-4	590.82	8/25	43.20	547.62	548.68	-1.06
88-93-11A	537.35	8/25	63.03	474.32	474.60	-0.28
88-93-13	581.50	8/25	112.96	468.54	469.12	-0.58
88-96-4	594.25	8/25	46.54	547.71	548.73	-1.02
CD-92-28	486.29	8/25	20.78	465.51	469.03	-3.52
MWP-2	710.33	8/25	55.09	655.24	657.25	-2.01
OW3-225	570.00	8/25	60.70	509.30	510.13	-0.83

All Measurements in feet

Table 4
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Geologic Unit
MW90-2	2	7/19/1990		253.21	2637.82	880.78	2	25-35	Orinda
MW90-3	1	7/23/1990		1134.60	2460.40	820.60	2	48-58	Colluvium
MW90-4	1	12/1/1990		1103.90	2289.30	746.15	2	15-25	Colluvium
MW90-5	1	12/1/1990		1067.30	2293.70	745.75	4	15-25	Colluvium
MW90-6	1	12/1/1990	9/17/2002	1046.70	2291.60	746.00	2	15-25	Colluvium / Orinda
MW91-1	5	5/30/1991		-69.08	4050.61	877.98	2	44-54	Orinda
MW91-2	5	5/31/1991		-65.83	3666.47	877.27	2	40-50	Orinda
MW91-3	3	6/4/1991		566.47	3807.95	981.69	2	53-63	Orinda
MW91-4	3	12/2/1991		476.81	3756.52	978.21	2	115-145	Orinda
MW91-5	3	6/3/1991		490.76	3815.48	978.28	2	30-40	Orinda
MW91-6	3	11/17/1991		382.38	3879.71	975.22	4	34-44	Orinda
MW91-8	2	1/9/1992		465.11	2662.97	887.02	2	65.5-75.5	Moraga
MW91-9	10	12/9/1991		246.20	2896.17	915.67	2	28.5-38.5	Orinda
MWP-1	15	6/6/1991		1177.15	1674.81	630.65	2	39-49	Colluvium
MWP-2	8	12/6/1991		219.37	1693.34	710.33	2	66-76	Great Valley
MWP-4	14	6/19/1991		-36.08	2169.41	831.56	2	43-53	Great Valley
MWP-5	14	6/25/1991		-262.06	2213.41	852.37	2	98-108	Great Valley
MWP-6	14	6/9/1991		-256.79	2476.38	845.44	2	27-37	Great Valley
MWP-7	14	6/10/1991		-206.48	2638.97	854.01	2	25-35	Orinda / Great Valley
MWP-8	10	6/14/1991		-292.68	2876.29	872.34	2	25-35	Orinda
MWP-9	5	6/18/1991		-196.07	3674.77	818.83	2	51-61	Great Valley
MWP-10	5	6/8/1991		-246.37	3862.41	809.74	2	57-67	Great Valley
MW1-220	2	9/24/1988		578.73	2751.09	901.64	4	83-93	Moraga
MW7-1	2	8/12/1988		295.97	2681.13	884.13	4	8-18	
MW62-B1A	13	9/26/1987		-987.16	4129.20	757.70	2	23-33	
MW62-B2	13	9/1/1986		-984.02	4127.06	756.60	2	24-34	
MW76-1	4	8/9/1988		137.13	3366.07	923.70	4	20-30	
51-92-2	9	3/19/1992		660.30	2174.22	724.69	2	6.5-16.5	Orinda
88-92-4	6	3/18/1992		931.05	1029.80	590.82	2	49-59	Great Valley
37-92-5	14	3/28/1992		-125.20	2668.23	881.56	2	85-105	Great Valley

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
37-92-6	14	2/23/1992		-245.60	2649.39	854.15	2	29-39	Great Valley
70-92-7	8	3/8/1992		403.84	1708.83	762.93	2	20.8-25.8	Great Valley
46-92-9	7	3/1/1992		612.25	2423.20	805.30	2	68.5-78.5	Orinda
77-92-10	5	3/3/1992		19.05	4092.31	879.11	2	48-68	Orinda
26-92-11	10	3/9/1992		165.02	3175.74	936.19	2	20.5-30.5	Orinda
61-92-12	5	2/28/1992		-356.90	3347.90	843.90	2	89-99	Orinda
74-92-13	11	4/15/1992		-355.80	5301.10	834.90	2	38.2-48.2	San Pablo (?)
83-92-14	11	2/22/1992		-354.70	5254.65	830.09	2	48-58	San Pablo (?)
46A-92-15	1	9/12/1992		1187.20	2539.10	830.10	2	29-39	Colluvium / Orinda
7-92-16	2	8/28/1992		181.20	2635.90	882.40	2	39-59	Moraga
6-92-17	14	8/27/1992		40.50	2729.10	891.20	2	24-39	Moraga/Orinda
37-92-18	14	8/31/1992	9/25/2002	-237.40	2723.80	860.30	2	19-29	Orinda
37-92-18A	14	9/14/1992		-240.60	2730.30	861.20	2	49-69	Great Valley
7-92-19	2	8/29/1992		299.60	2684.50	884.80	2	24-39	Moraga/Orinda
27-92-20	2	10/14/1992		544.10	2661.00	881.10	2	63.5-83.5	Moraga/Orinda
53-92-21-130'	2	10/92		358.33	2657.18	886.97	2	125-130	Orinda
53-92-21-147'	2	10/92		357.94	2657.11	886.99	2	142-147	Orinda
53-92-21-167'	2	10/92		358.07	2656.90	886.97	2	162-167	Orinda
53-92-21-193'	2	10/92		358.35	2656.90	886.98	2	188-193	Orinda
69A-92-22	3	1/22/1993		320.97	3951.1	977.06	2	44-64	Orinda
75-92-23	3	9/2/1992		362.50	3797.00	972.10	6	29-49	Colluvium
75B-92-24	3	9/1/1992		218.40	3692.30	956.90	2	37-57	Orinda
76-92-25	4	9/13/1992	9/18/2002	181.90	3293.20	928.70	2	23.5-38	Orinda
62-92-26	13	9/3/1992		-1157.60	4402.30	773.70	2	47-57	Great Valley
62-92-27	13	9/4/1992		-1112.00	4157.10	769.90	2	56-66	Great Valley
CD-92-28	OS	10/26/1992		-1240.92	2435.51	486.29	2	45-55	Great Valley
71-93-1	1	9/9/1993		1458.58	2562.60	872.39	2	43-63	Moraga/Orinda
71-93-2	1	9/8/1993		1352.87	2441.60	844.39	2	39-59	Moraga
58-93-3	7	5/17/1994		331.23	2515.06	830.06	2	14-24	Colluvium/Moraga
6-93-4	2	9/10/1993		229.92	2599.52	881.60	2	35-50	Artificial Fill/Moraga

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
37-93-5	14	8/26/1993	9/18/2002	-231.11	2573.04	850.17	2	39-49	Great Valley
76-93-6	4	8/25/1993		252.62	3600.80	948.61	2	34-44	Orinda
76-93-7	4	8/28/1993		141.90	3299.84	924.85	2	24-39	Orinda
77-93-8	5	8/23/1993		-44.32	3554.55	879.01	2	16-26	Art Fill/Col/Orinda
53-93-9	2	9/9/1993		427.92	2732.45	900.68	2	68-88	Moraga/Orinda
5-93-10	10	9/10/1993		179.51	2873.28	914.90	2	22-37	Moraga/Orinda
88-93-11A	6	3/2/1994		956.00	864.20	537.35	2	55-65	Great Valley
46-93-12	7	9/7/1993		673.46	2530.88	807.57	2	8.5-13.5	Moraga/Orinda
88-93-13	6	11/1/1993		671.81	980.85	581.50	2	118.5-138.5	Great Valley
52-93-14	10	12/9/1993		276.79	2842.59	900.03	2	24.5-39.5	Moraga/Orinda
25-93-15	10	11/8/1993		-46.77	3057.62	936.44	2	55-75	Moraga/Orinda
53-93-16-42'	2	1/29/1994		356.87	2674.05	887.45	2	31.5-41.5	Moraga
53-93-16-69'	2	1/29/1994		356.74	2673.78	887.40	4	58.5-68.5	Moraga
53-93-17	2	11/2/1993		458.40	2707.41	902.62	2	60.5-75.5	Moraga
51B-93-18A	9	5/19/1994		1070.65	2174.99	709.95	2	23.5-43.5	Orinda
46A-93-19	1	1/15/1994		1024.48	2439.82	809.77	2	44-64	Orinda
71-94-1	1	5/21/1994		1381.17	2358.57	845.84	2	38.5-48.5	Moraga
7-94-3	2	5/13/1994		267	2705.26	882.88	2	22.5-42.5	Orinda
77-94-5	5	5/9/1994		-53.24	3604.82	878.96	2	43.5-63.5	Orinda
77-94-6	5	5/5/1994		-67.94	3722.2	876.76	2	40.5-60.5	Orinda
74-94-7	11	4/28/1994		-508.66	5233.24	819.82	2	33.5-43.5	San Pablo (?)
74-94-8	11	5/10/1994		-594.5	5343.25	815.74	2	20-30	Col/Alluv/San Pablo (?)
37-94-9	14	5/12/1994		-228.55	2682.42	856.51	2	24-44	Orinda/Great Valley
52-94-10	10	10/17/1994		465.38	2859.99	906.04	2	47-67	Moraga/Orinda
51-94-11	1	10/18/1994		1194.70	2263.64	756.83	4	8-18	Moraga/Orinda
25-94-12	10	10/14/1994		24.60	3021.73	937.59	2	26-46	Moraga/Orinda
16-94-13	10	10/11/1994		253.46	2762.79	892.50	2	22-42	Orinda
58A-94-14	7	10/4/1994		424.85	2457.65	821.73	2	21-41	Moraga/Orinda
51-94-15	7	11/7/1994		625.97	2264.47	771.17	4	30-40	Orinda
46-94-16	9	11/7/1994	9/19/2002	906.27	2300.02	756.16	2		Orinda

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
71-95-1	1	4/11/1995	9/17/2002	1479.30	2335.13	846.94	2		Moraga
52-95-2A	10	8/29/1995		372.05	2864.37	910.27	2	34.5-44.5	Moraga
52-95-2B	10	8/29/1995		372.19	2864.56	910.23	2	65-110	Moraga/Orinda
16-95-3	10	4/18/1995		45.73	2787.74	901.52	2	23-30	Moraga/Orinda
25A-95-4	10	4/20/1995		219.82	3033.97	938.35	2	28-48	Orinda
25-95-5	10	8/22/1995		-154.47	3091.60	932.88	2	69-94	Moraga/Orinda
74-95-6	11	7/14/1995		-354.67	5334.83	838.66	4	35-50	San Pablo (?)
83-95-7	11	7/14/1995		-285.14	5246.70	840.75	4	36-46	San Pablo (?)
71-95-8	1	4/13/1995		1298.86	2549.05	839.09	2	29-49	Orinda
71-95-9	1	4/14/1995		1249.27	2662.35	854.18	2	23.5-38.5	Artificial Fill/Colluvium
58-95-11	7	5/15/1995		296.22	2512.06	831.62	4	8.5-28.5	Moraga/Orinda
53-95-12	2	7/19/1995		360.87	2616.60	867.45	1	35-50	Moraga/Orinda
52B-95-13	10	7/21/1995		282.76	2732.91	887.40	1	16-31	Moraga/Orinda
6-95-14	2	8/15/1995		184.75	2631.08	881.43	4	22-67	Moraga/Orinda
25A-95-15	10	8/3/1995		148.22	2960.59	931.68	2	29-49	Orinda
62-95-16	13	8/4/1995		-972.38	4088.45	741.06	4	18.5-33.5	Great Valley
51-95-17	9	2/12/1996	11/18/2002	913.86	2272.51	744.67	2	22-37	Orinda
58-95-18	7	8/9/1995		471.88	2401.55	788.61	4	7.5-17.5	Colluvium/Moraga/Orinda
58-95-19	7	9/13/1995		395.42	2562.55	834.33	1	20.5-30.5	Orinda
58-95-20	7	8/8/1995		494.26	2517.86	818.81	2	14.5-34.5	Moraga/Orinda
7B-95-21	2	8/11/1995		283.95	2679.19	883.63	4	13.5-38.5	Moraga/Orinda
7-95-22	2	8/10/1995		278.23	2659.08	882.16	4	13.5-38.5	Moraga
7-95-23	2	12/22/1995		285.15	2659.67	882.37	4	43-53	Moraga/Orinda
7B-95-24	2	12/18/1995		318.75	2655.51	883.88	4	53-73	Moraga/Orinda
7B-95-25	2	12/13/1995		274.27	2634.08	882.03	2	24-44	Moraga
25-95-26	10	4/29/1996		-54.01	3139.20	935.81	2	38-58	Moraga
25-95-27	10	12/20/1995		-327.09	3045.68	859.83	2	19.5-34.5	Orinda
53-96-1 (MW91-7	2	4/19/1996		344.37	2682.54	887.64	4	67-82	Moraga/Orinda
4-96-2	10	4/17/1996		-84.00	2889.05	912.64	2	45-65	Orinda
51-96-3	9	4/23/1996		546.48	2240.66	766.44	4		Colluvium

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
88-96-4	6	4/26/1996		968.53	1105.35	594.25	2	46.5-66.5	Great Valley
70A-96-5	8	4/15/1996	11/13/2002	370.50	1757.93	762.68	4	15-30	Great Valley
70A-96-6	8	4/16/1996	11/13/2002	334.24	1764.19	762.67	4	20-40	Great Valley
46-96-10	7	11/4/1996		886.68	2397.81	790.35	2	22-37	Moraga
58-96-11	2	6/11/1996		350.19	2588.64	848.23	2		Moraga/Orinda
58-96-12	7	12/4/1996	9/16/2002	295.46	2508.67	831.84	4	2-7	Fill/Moraga
70A-96-13	8	9/24/1996		292.97	1511.04	711.87	2	111-141	Great Valley
70A-96-14	8	9/24/1996		392.41	1498.87	716.64	2	112-142	Great Valley
51-96-15	9	9/26/1996		1004.38	2109.8	709.83	2	20-40	Orinda
51-96-16	9	9/25/1996		1054.3	2095.66	709.72	2	10-30	Artificial Fill
51-96-17	9	9/25/1996		1054.56	2093.45	709.64	2	35-55	Orinda
51-96-18	9	9/27/1996		1126.37	2170.13	710.76	2	6-16	Orinda
51-96-19	9	9/27/1996		1066.52	2184.14	709.40	2	5-15	Artificial Fill
75-96-20	3	2/13/1997		487.72	3762.28	979.07	2	24.5-49.5	Orinda ?
64-97-1	9	5/20/1997		1194.82	2167.79	709.94	2	4.5-24.5	Orinda
64-97-2	9	5/20/1997		1142.40	2085.16	709.65	2	9-29	Orinda
51-97-3	9	6/3/1997		1102.96	1902.48	709.81	2	54.5-74.5	Artificial Fill
51-97-4	9	6/25/1997		1101.16	1902.01	709.66	2	89-104	Orinda
75-97-5	3	7/19/1997		232.73	3768.01	963.73	2	39-69	Orinda
75-97-6	3	5/22/1997		262.75	3819.22	967.89	4	53.5-73.5	Orinda
75-97-7	3	6/9/1997		253.44	3870.26	970.70	2	58.5-78.5	Orinda
69-97-8	3	9/13/1997		256.51	3937.09	975.75	2.25	50-70	Colluvium/Orinda
77-97-9	5	6/4/1997		76.53	3753.30	888.69	2	19-49	Colluvium/Orinda
77-97-10	5	5/21/1997	9/18/2002	-91.93	3871.35	877.73	2	32-52	Colluvium/Orinda
77-97-11	5	6/24/1997		-205.88	3749.71	814.67	2	22.5-42.5	Colluvium/Orinda
51-97-12	9	9/2/1997		1109.18	1904.55	709.37	2	29.5-49.5	Artificial Fill
51-97-13	9	9/11/1997		1196.36	1901.98	709.48	2	48-68	Artificial Fill
51-97-14	9	9/10/1997		1020.26	1883.14	708.89	2	44-64	Artificial Fill
51-97-15	9	9/12/1997		1155.18	1803.16	706.11	2	88-108	Artificial Fill

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
51-97-16	9	9/9/1997		875.26	1917.64	709.58	2	14.5-34.5	Art. Fill/Great Valley
31-97-17	5	9/5/1997		-459.67	3738.68	746.15	2	21.5-31.5	Colluvium
31-97-18	5	9/4/1997		-480.52	3779.68	747.80	2	39.5-59.5	Colluvium/Great Valley
78-97-20	4	10/10/1997		298.21	3429.47	949.54	2	14-34	Orinda
69-97-21	3	9/23/1997		471.24	3985.45	1003.4	2	18.5-38.5	Orinda
76-97-22	4	10/17/1997	9/25/2002	165.14	3545.94	937.91	2	25-45	Colluvium/Orinda
71-97-23	1	9/8/1997		1221.62	2469.83	844.45	2	39.5-59.5	Artificial Fill/Orinda
25A-98-1	10	4/23/1998		99.79	2986.86	936.88	2	30-50	Orinda
56-98-2	9	4/24/1998		1264.86	1887.99	709.76	2	35-55	Artificial Fill/Orinda
25A-98-3	10	4/21/1998		175.76	3027.87	940.14	2	25-45	Orinda
64-98-4	9	4/20/1998	3/15/2000	1133.05	2172.54	711.12	2	5-15	Orinda
51-98-5	9	5/8/1998		951.70	1922.10	709.63	2	30-50	Colluvium
25A-98-6	10	10/2/1998		134.29	3091.47	939.90	2	20.5-40.5	Moraga/Orinda
25A-98-7	10	9/1/1998		140.51	3001.67	942.71	2	19-34	Orinda
52A-98-8A	10	9/16/1998		339.79	2883.49	913.56	2	23-33	Colluvium
52A-98-8B	10	9/17/1998		339.86	2883.73	913.51	2	60-80	Moraga
52-98-9	10	9/11/1998		377.44	2864.09	910.86	2	60-80	Moraga
25-98-10	10	9/12/1998		-105.23	3087.97	934.42	2	70-90	Moraga/Orinda
46A-98-11	1	11/3/1998	11/16/2002	1049.68	2422.42	813.66	2	54-74	Orinda
71B-98-13	1	9/23/1998		1202.90	2583.97	832.33	2	15-30	Artificial Fill/Orinda
75-98-14	3	9/17/1998		436.14	3711.28	977.94	2	20-35	Orinda
75-98-15	3	9/21/1998		479.95	3640.78	977.97	2	20-35	Orinda
75-98-16	3	10/12/1998	9/16/2002	603.26	3451.27	1074.19	2	69-89	Orinda
31-98-17	5	9/14/1998		-719.39	3709.06	693.47	2	50-60	Colluvium
63-98-18	15	9/15/1998		1352.18	1819.94	709.99	2	20-35	Artificial Fill
64-98-19	9	2/1/1999	3/15/2000	1130.56	2178.51	711.11	2	21-26	Orinda
64-98-20	9	4/30/1999	8/00	1133.29	2180.09	710.98	2	9.5-14.5	Orinda
76-98-21	4	9/25/1998		137.79	3352.42	923.20	2	15-35	Orinda
76-98-22	4	12/18/1998		72.85	3375.83	904.57	2	19-39	Orinda

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
51-99-1	9	5/1/1999		679.33	1978.83	724.44	2	25-35	Great Valley
25A-99-2	10	5/1/1999		137.70	3037.07	940.45	2	20-30	Moraga/Orinda
71B-99-3	1	7/6/1999	10/00	1179.35	2637.78	843.21	2	20-30	Orinda
71B-99-3R	1	4/5/2001		1178.62	2629.15	840.13	4	24-34	Orinda
75-99-4	3	7/20/1999		462.42	3665.77	977.90	2	19.5-34.5	Orinda
25A-99-5	10	7/19/1999		166.42	3062.06	940.16	2	24-44	Orinda
75-99-6	3	11/19/1999		519.69	3687.82	979.94	2	15.5-25.5	Orinda
75-99-7	3	11/19/1999		463.30	3749.60	977.92	2	14-24	Artificial Fill/Orinda
75-99-8	3	12/6/1999		502.05	3669.34	979.34	2	20-30	Orinda
51-00-1	9	2/5/2000		690.86	2162.65	725.28	2	20-25	Orinda
71B-00-2	1	3/20/2000		1197.37	2587.90	832.41	2	45-60	Orinda
58A-00-3	7	5/17/2000		415.38	2454.06	822.54	2	69-84	Orinda
7-00-4	2	5/17/2000		294.69	2658.33	883.18	2	84-99	Orinda
25A-00-5	10	5/17/2000		139.64	2965.28	933.12	2	68-83	Orinda
52A-00-6	10	5/17/2000		321.30	2911.46	917.34	2	105-120	Orinda
75A-00-7	3	1/5/2001		469.39	3758.40	978.32	2	115-145	Orinda
51-00-8	9	9/7/2000		1095.81	1806.71	682.11	2	20-40	Artificial Fill/Orinda
51-00-9	9	10/2/2000		1008.33	2177.85	698.16	2	5-10	Orinda
51-00-10	9	10/3/2000		988.59	2177.76	698.18	2	5-10	Orinda
69A-00-11	3	9/8/2000		321.66	3943.67	977.05	2	19.5-39.5	Orinda
58-00-12	7	10/5/2000		326.88	2607.24	860.62	2	38-59	Orinda/Mixed Unit
51L-01-1A	9	7/23/2001		864.13	1878.36	710.04	2	4-9	Artificial Fill/Colluvium
51L-01-1B	9	7/23/2001		863.88	1878.37	710.04	2	15-30	Great Valley
51L-01-3	9	12/20/2001		896.88	1893.03	709.54	2	34.5-49.5	Great Valley
51L-01-4	9	7/23/2001		915.93	1884.49	709.87	2	30-45	Great Valley
51L-01-5A	9	7/16/2001		936.13	1908.95	709.96	2	18-33	Artificial Fill/Colluvium
51L-01-5B	9	7/16/2001		936.09	1908.62	709.94	2	48.5-63.5	Great Valley
51L-01-6	9	7/18/2001		911.02	1931.44	709.80	2	20-30	Artificial Fill/Colluvium
51L-01-7	9	7/17/2001		906.47	1931.41	709.76	2	60-75	Great Valley
51A-01-10A	9	10/3/2001		814.28	1900.05	709.78	2	15-30	Great Valley

Table 4 (Cont'd)
LBNL Monitoring Well Construction Details

Location ID	Area	Completion Date	Abandonment Date	UC Grid North Coordinate	UC Grid East Coordinate	Top of Casing Elevation (ft above MSL)	Casing Diameter (inches)	Approximate Screened Interval (ft below TOC)	Screened Formation Name
51A-01-11	9	9/28/2001		841.85	1941.48	709.74	2	30-45	Great Valley
51L-02-1	9	1/11/2002		921.03	1871.48	709.74	2	20-30	Artificial Fill/Colluvium/Great Valley
Soil Gas Wells									
74-95-6	11	7/14/1995					1	15-20	San Pablo (?)
83-95-7	11	7/14/1995					1	25-30	San Pablo (?)
71-95-10	1	4/17/1995					3/4"	9.9-10.4	Artificial Fill
							3/4"	20.1-20.6	Artificial Fill
							3/4"	32.7-33.2	Artificial Fill

Artificial Fill: soils placed during grading activities
Colluvium: Quaternary soil/colluvium
Alluvium: Quaternary alluvium
San Pablo (?): shallow marine sandstones tentatively assigned to the San Pablo Group
Orinda: Orinda Formation sediments
Great Valley: Upper Cretaceous sedimentary rocks
Moraga: Moraga Formation volcanics

Table 5-1
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	46A-92-15 (well is on semi-annual sampling)																				
		Oct-92	(D)	Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Aug-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Jun-97
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	1.2	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
sec-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
ter-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
Ethylbenzene	300	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
Isopropylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2
p-Isopropyltoluene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2
n-Propylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
Toluene	150	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,3-Trichloropropane		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1
Xylenes, total	1750	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons														1.2								
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	1.1	0.7	0.96	<30	<30	<30	<30	<30	0.60	<30	<30
Chloroform	100	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	<5	4.8	<5	1.8	2.0	4.5	1.8	2.8	1.6	1.2	1.6	1.4	1.7	1.7	1.4	1.5	<1	<1	1.0	<1	<1
1,2-Dichloroethane	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	1.7	3.8	2.2	0.82	3.4	5.7	17.4	11.8	10.1	12.2	13.0	5.1	7.4
trans-1,2-Dichloroethene	10	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	0.98	0.73	1.1	1.6	4.5	2.3	3.2	2.8	2.8	1.1	1.4
1,2-Dichloropropane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	10.8	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	1.8	1.5	1.5	<1	<0.5	<1	<1
Freon-11	150	<2	<2	<1.1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2
Freon-12		<15		<14.4	<20	<20	<20	<20	<20	<20	<20	<0.5	<0.5	<0.5	<5	<2	<2	<2	<2	<0.5	<3	<3
Freon-113	1200	<1		<0.6	<1	<1	<1	<1	<1	5.9	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A																						
Vinyl Chloride	0.5	19.3	21.0	11.7	5.4	2.4	5.4	8.2	10.9	11.3	3.1	7.8	3.3	9.2	9.6	15.9	10.1	7.6	10.1	12.0	3.8	7.2
Total Halogenated Hydrocarbons		19.3	25.8	11.7	7.2	4.4	9.9	10.0	13.7	20.5	18.9	13.68	6.95	16.36	18.6	41.0	27.2	22.4	25.1	29.4	10.0	16.0
Total Concentration of VOCs		19.3	25.8	11.7	7.2	4.4	9.9	10.0	13.7	20.5	18.9	13.68	6.95	17.56	18.6	41.0	27.2	22.4	25.1	29.4	10.0	16.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) Duplicate result analyzed by Chromalab, EPA Method 8240

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	46A-92-15 (continued)																	
		Aug-97	Nov-97	Mar-98	May-98	Nov-98	Feb-99	May-99	Jun-99	Feb-00	Aug-00	Jan-01	Aug-01	Feb-02	Aug-02	Jan-03	Jul-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons					1.2														
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	5.7	8.3	10.7	1.2	<1	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	1.4	1.7	1.1	<1	<1	<1	<1	<1	<1	<1	1.4	1.2	1.0	<1	1.0	1.1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	2.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1
Freon-11	150	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-12		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	6.3	11.0	9.5	<1	1.2	3.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		13.4	21.0	21.3	1.2	4.6	6.7					1.4	1.2	1.0		1.0	1.1	1.3	
Total Concentration of VOCs		13.4	21.0	21.3	2.4	4.6	6.7					1.4	1.2	1.0		1.0	1.1	1.3	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

		46A-93-19 (well is on annual sampling)																							
Constituent	MCL	Apr-94	(D)*	Jun-94	Aug-94	Dec-94*	Mar-95*	(D)†	May-95*	Aug-95	(D)*	Nov-95	Feb-96	May-96	Aug-96	Dec-96*	Mar-97	May-97	May-98*	May-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Bromodichloromethane	100	<1	<0.5	<1	<1	<0.5	<0.5	<10	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroethane		<5	<0.5	<5	<5	<0.5	<0.5	<10	<0.5	<30	<0.5	<30	<30	<30	<30	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	12.8	0.6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	1.1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-11	150	<1	<0.5	<1	<1	<0.5	<0.5	<5	<0.5	<1	<0.5	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon-12		<20	<0.5	<20	<20	<0.5	<0.5	<10	<0.5	<5	<0.5	<2	<2	<2	<2	<0.5	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
Freon-113	1200	<1	<0.5	<1	<1	<0.5	0.61		<0.5	<5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-123A																				<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<10	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons							0.61								13.9	0.6									
Total Concentration of VOCs							0.61								13.9	0.6									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-92-2 (well is on annual sampling)																				
		Dec-92	Mar-93	Jun-93	Aug-93	Oct-93	Feb-94	Aug-94	Feb-95*	Sep-95	Feb-96	Aug-96	Mar-97	Aug-97	May-98*	May-99	Feb-00	Aug-00	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<3	<0.5	<3	<3	<3
Freon 12		<14.4	<20	<20	<20	<20	<20	<20	<0.5	<5	<2	<2	<3	<3	<0.5	<3	<3	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons																						
Total Concentration of VOCs																						

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

All analyses by LBNL EML unless otherwise noted

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	51-94-11 (well is on annual sampling) Dec-94	(D)*	Feb-95*	(D)†	Jun-95	Sep-95	Nov-95	Feb-96	Jun-96	Aug-96	Dec-96	Feb-97	May-97	Feb-98	Aug-98	Feb-99	Aug-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,3-Trichloropropane		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<0.5	<5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<1	<1	<1	<10	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane	100	<1	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroethane		<30	<0.5	<0.5	<10	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	<1	4.4	1.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloropropane	5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	2.1	<0.5	<5	<1	<1	<1	3.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	1.1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-11	150	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Freon-12		<20	<0.5	<0.5	<10	<5	<5	<2	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
Freon-113	1200	10.4	1.8	1.3		<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-123A															<1	1.6	<1	1.6	<1	2.0	2.1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		10.4	9.4	2.8					3.4							1.6		1.6		2.0	2.1					
Total Concentration of VOCs		10.4	9.4	2.8					3.4							1.6		1.6		2.0	2.1					
Total Halogenated Hydrocarbons[a]			3.2						3.4																	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include chloroform or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-15 (well is on semi-annual sampling)																				
		Jan-97	(D)*	Apr-97	Aug-97	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Feb-03	Aug-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Freon 12		<2	<9	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	4.4	<9	1.2	<1	<1	<1	1.3	<1	<1	2.4	<1	<1	<1	<1	<1	1.5	<1	1.0	<0.5	<1	1.7
trans-1,2-Dichloroethene	10	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	383.0	400.0	35.3	9.7	1.1	3.2	1.2	3.7	3.9	<1	3.0	1.3	1.4	<1	2.2	<1	1.4	<1	1.6	5.9	2.1
1,1,1-Trichloroethane	200	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	49.5	46.0	6.3	3.5	5.6	4.9	10.0	2.5	2.5	11.8	3.8	7.0	2.4	9.1	5.0	9.3	4.2	7.1	3.7	4.5	6.5
Freon-113	1200	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		436.9	446.0	42.8	13.2	6.7	8.1	12.5	6.2	6.4	14.2	6.8	8.3	3.8	9.1	7.2	10.8	5.6	8.1	5.3	10.4	10.3
Total Concentration of VOCs		436.9	446.0	42.8	13.2	6.7	8.1	12.5	6.2	6.4	14.2	6.8	8.3	3.8	9.1	7.2	10.8	5.6	8.1	5.3	10.4	10.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-16 (well is on semi-annual sampling)																					
		Jan-97	(D)*	Jun-97†	Jul-97(G)	Aug-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	Jun-99	Mar-00	Sep-00	Mar-01	Aug-01	Feb-02	Aug-02	Jan-03	Jul-03*	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
n-Butylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
sec-Butylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
ter-Butylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Ethylbenzene	300	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Isopropylbenzene		<2	<9	<2	<2	<2	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<3	<0.5	<20
p-Isopropyltoluene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Naphthalene		<2	<9	<2	<2	<2	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<3	<0.5	<20
n-Propylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Toluene	150	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
1,2,4-Trichlorobenzene	5	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
1,2,4-Trimethylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
1,3,5-Trimethylbenzene		<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Xylenes, total	1750	<2	<20	<2	<2	<2	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<5	<1	<20
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Chloroform	100	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<3	<3	<3	<30	<3	<3	<3	<0.5	<30
Freon 12		<2	<9	<3	<3	<3	<3	<30	<3	<30	<3	<3	<3	<3	<3	<3	<3	<30	<3	<3	<3	<0.5	<30
1,1-Dichloroethane	5	21.8	20.0	<1	14.9	13.8	17.2	34.4	29.0	17.3	25.2	21.4	22.2	54.5	45.7	46.8	34.3	25.1	17.5	18.0	10.0	22.0	20.7
1,2-Dichloroethane	0.5	<2	<9	<2	<2	<2	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<3	<0.5	<20
1,1-Dichloroethene	6	15.7	16.0	<1	8.2	8.3	29.4	22.6	16.2	<10	10.1	7.6	9.9	12.9	7.0	9.8	7.9	<10	6.8	5.6	6.2	7.8	<10
cis-1,2-Dichloroethene	6	455.0	380.0	<1	258.0	228.0	277.0	479.0	353.0	338.0	319.0	352.0	367.0	362.0	350.3	305.0	301.9	259.3	234.0	226.0	170.0	180.0	455.0
trans-1,2-Dichloroethene	10	51.1	39.0	<1	34.2	30.3	<1	64.7	49.5	25.0	29.4	26.5	36.9	53.9	21.5	36.2	21.0	27.6	27.4	23.6	25.0	27.0	42.4
Methylene Chloride	5	<1	<20	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<5	<1	<10
Tetrachloroethene	5	26.9	24.0	<1	13.7	14.6	20.3	30.2	20.8	16.7	16.0	13.2	14.5	29.2	10.5	12.2	10.9	<10	5.2	13.4	6.2#	9.4	10.6
1,1,1-Trichloroethane	200	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
1,1,2-Trichloroethane	5	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Trichloroethene	5	194.0	160.0	<1	101.0	87.6	131.0	225.0	154.0	114.0	121.0	111.0	134.0	146.0	81.3	109.1	101.3	97.6	74.6	82.6	40.0	89.0	130.0
Freon-113	1200	<1	<9	<1	<1	<1	<1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<3	<0.5	<10
Vinyl Chloride	0.5	73.0	66.0	<1	73.1	68.5	37.3	104.0	58.0	29.7	34.1	34.7	58.1	92.8	14.2	53.1	5.2	34.8	31.1	37.9	39.0	12.0	23.6
Total Halogenated Hydrocarbons		837.5	705.0		503.1	451.1	512.2	959.9	680.5	540.7	554.8	566.4	642.6	751.3	530.5	572.2	482.5	444.4	396.6	407.1	296.4	347.2	682.3
Total Concentration of VOCs		837.5	705.0		503.1	451.1	512.2	959.9	680.5	540.7	554.8	566.4	642.6	751.3	530.5	572.2	482.5	444.4	396.6	407.1	296.4	347.2	682.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
†Results are questionable, well was resampled to confirm sampling error.

#=Analyte detected in continuing calibration blank and method blank above PQL
(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-17 (well is on annual sampling)																		
		Jan-97	(D)*	May-97	Aug-97	Nov-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	Jun-99	Feb-00	Aug-00	Mar-01	Sep-01	Feb-02	Aug-02	Jul-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<0.5	<3
Freon 12		<2	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	9.1	9.1	8.4	7.1	4.5	8.6	6.7	6.2	5.2	4.4	4.0	5.4	8.1	6.7	6.1	5.2	4.3	4.1	5.0
1,2-Dichloroethane	0.5	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	3.7	4.7	3.8	3.2	<1	4.1	3.3	2.5	1.6	1.3	<1	1.5	3.4	2.3	2.2	1.4	1.1	1.2	<1
cis-1,2-Dichloroethene	6	46.7	42.0	39.6	24.7	10.4	37.8	35.0	40.6	23.0	19.3	14.4	19.2	78.4	46.2	31.7	22.1	18.8	23.0	54.0
trans-1,2-Dichloroethene	10	35.2	26.0	27.6	24.5	6.0	32.5	32.6	28.4	19.7	15.6	12.5	22.8	44.8	35.0	34.4	21.7	19.1	25.0	31.6
Methylene Chloride	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	9.3	10.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	1.5	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	35.6	30.0	21.4	20.1	6.2	29.5	20.0	18.2	13.8	11.7	9.0	12.8	17.2	16.6	18.2	10.2	9.0	9.3	10.4
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	35.6	37.0	18.2	43.7	<1	45.6	52.5	70.0	27.9	21.1	6.2	30.8	103.5	68.4	36.8	30.1	14.2	26.0	21.5
Total Halogenated Hydrocarbons		176.7	160.9	119.0	123.3	27.1	158.1	150.1	165.9	91.2	73.4	46.1	92.5	255.4	175.2	129.4	90.7	66.5	88.6	122.5
Total Concentration of VOCs		176.7	160.9	119.0	123.3	27.1	158.1	150.1	165.9	91.2	73.4	46.1	92.5	255.4	175.2	129.4	90.7	66.5	88.6	122.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-18 (well is on semi-annual sampling)																
		Jan-97	(D)*	Feb-97	Apr-97	Aug-97	Dec-97	(D)*	Mar-98	Jun-98	(D)*	Sep-98	Dec-98	Mar-99	Jun-99	Mar-00	Sep-00	Mar-01
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
n-Butylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
sec-Butylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
ter-Butylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
Ethylbenzene	300	<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
Isopropylbenzene		<2	<30	<100	<2	<200	<20	<0.5	<200	<200	<0.5	<100	<20	<20	<20	<20	<2	<2
p-Isopropyltoluene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
Naphthalene		<2	<30	<100	<2	<200	<20	<0.5	<200	<200	<0.5	<100	<20	<20	<20	<20	<2	<2
n-Propylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	1.1
Toluene	150	<1	<30	<50	<1	<100	<10	0.70	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
1,2,4-Trichlorobenzene	5	<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
1,2,4-Trimethylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
1,3,5-Trimethylbenzene		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
Xylenes, total	1750	<2	<60	<100	<2	<200	<20	<1	<200	<200	<1	<100	<20	<20	<20	<20	<2	<2
Total Aromatic Hydrocarbons								0.70										1.1
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	6.8	16.8
Chloroethane		<30	<30	<1500	<30	<3000	<300	0.72	<3000	<3000	<0.5	<1500	<300	<300	<300	<300	<30	<30
Chloroform	100	2.0	<30	<50	2.0	<100	<10	0.77	<100	<100	0.60	<50	<10	<10	<10	<10	<3	<3
Freon 12		<2	<30	<100	<3	<300	<30	<0.5	<300	<300	<0.5	<100	<30	<30	<30	<30	<3	<3
1,1-Dichloroethane	5	2,070	1,700	2,480	2,120	1,950	3,050	3,100	2,560	1,770	2,000	1,690	1,790	1,500	1,400	819.0	402.2	499.8
1,2-Dichloroethane	0.5	28.2	<30	<100	26.8	<200	38.3	<0.5	<200	<200	25.0	<100	24.0	<20	<20	15.3	7.0	7.7
1,1-Dichloroethene	6	330.0	390.0	489.0	419.0	309.0	585.0	730.0	503.0	397.0	500.0	236.0	405.0	216.0	212.0	209.0	108.7	103.3
cis-1,2-Dichloroethene	6	34.2	32.0	<50	24.4	<100	42.1	60.0	<100	<100	23.0	<50	<10	18.8	20.2	26.6	9.3	11.3
trans-1,2-Dichloroethene	10	<1	<30	<50	<1	<100	<10	2.4	<100	<100	1.4	<50	<10	<10	<10	<10	<1	<1
Methylene Chloride	5	34.7	<60	<50	<1	<100	<10	11.0	<100	<100	<1	<50	<10	<10	<10	<10	<1	<1
1,1,2,2-Tetrachloroethane		<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<1	<50	<10	<10	<10	<10	<1	1.1
Tetrachloroethene	5	180.0	230.0	215.0	183.0	168.0	238.0	340.0	263.0	188.0	200.0	118.0	173.0	130.0	141.0	202.0	88.1	148.5
1,1,1-Trichloroethane	200	135.0	180.0	212.0	207.0	159.0	200.0	220.0	200.0	129.0	160.0	66.1	75.0	38.4	<10	102.0	41.6	92.0
1,1,2-Trichloroethane	5	1.3	<30	<50	1.4	<100	<10	2.3	<100	<100	1.7	<50	<10	<10	<10	<10	<1	<1
Trichloroethene	5	408.0	430.0	479.0	366.0	362.0	601.0	750.0	595.0	387.0	470.0	294.0	459.0	345.0	320.0	298.0	171.5	176.2
Freon-113	1200	<1	<30	<50	<1	<100	<10	<0.5	<100	<100	<0.5	<50	<10	<10	<10	<10	<1	<1
Vinyl Chloride	0.5	71.2	67.0	<50	2.7	<100	83.6	110.0	<100	<100	3.7	<50	<10	<10	<10	<10	<1	<1
Total Halogenated Hydrocarbons		3,294.6	3,029.0	3,875.0	3,352.3	2,948.0	4,838.0	5,327.2	4,121.0	2,871.0	3,385.4	2,404.1	2,926.0	2,248.2	2,093.2	1,671.9	835.2	1056.7
Total Concentration of VOCs		3,294.6	3,029.0	3,875.0	3,352.3	2,948.0	4,838.0	5,327.9	4,121.0	2,871.0	3,385.4	2,404.1	2,926.0	2,248.2	2,093.2	1,671.9	835.2	1057.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-18 (continued)											
		Aug-01	Mar-02	Aug-02	Feb-03	Sep-03	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Carbon Tetrachloride	0.5	11.8	<10	<10	<1	<1	1.6	2.1	1.9	1.6	1.8	<1	<1
Chloroethane		<300	<300	<300	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<30	<30	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon 12		<30	<30	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	644.0	608.9	458.1	400.0	377.0	194.0	141.0	111.0	92.6	65.2	56.0	64.0
1,2-Dichloroethane	0.5	<20	<20	<20	4.9	6.4	2.5	2.1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	105.3	61.6	67.6	46.8	88.1	41.9	29.1	29.8	23.5	27.1	23.3	28.8
cis-1,2-Dichloroethene	6	13.7	<10	10.6	6.8	10.0	4.9	4.0	3.2	2.9	2.3	1.7	2.1
trans-1,2-Dichloroethene	10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	113.7	66.8	101.0	77.9	143.0	259.0	406.0	389.0	360.0	488.0	387.0	313.0
1,1,1-Trichloroethane	200	72.4	37.1	20.9	14.7	11.1	15.0	12.9	12.1	10.0	12.6	9.3	8.9
1,1,2-Trichloroethane	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	187.5	106.9	113.9	83.1	120.0	100.0	99.2	87.9	84.3	95.8	71.3	70.6
Freon-113	1200	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1,148.4	881.3	772.1	634.2	755.6	618.9	696.4	634.9	574.9	692.8	548.6	487.4
Total Concentration of VOCs		1,148.4	881.3	772.1	634.2	755.6	618.9	696.4	634.9	574.9	692.8	548.6	487.4

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-96-19 (well is on annual sampling)																		
		Jan-97	(D)*	Apr-97	Aug-97	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Mar-00	Sep-00	Mar-01	Sep-01	Feb-02	Aug-02	Aug-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	0.76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons			0.76																	
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	7.1	<3
Freon 12		<2	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	1.9	2.2	<1	<1	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	1.4	1.9	<1	1.5	3.7	<1	<1	1.3	1.4	<1	<1	<1	<1	<1	<1	1.1	<1	0.68	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	2.1	2.7	1.1	<1	1.9	1.9	4.4	2.0	3.1	2.6	1.8	3.0	<1	1.9	2.6	3.6	2.7	1.9	1.3
1,1,1-Trichloroethane	200	4.9	5.6	4.0	2.0	5.9	2.8	1.4	4.0	5.5	1.1	<1	2.2	1.0	<1	2.8	1.8	1.6	0.84	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	17.1	16.0	9.8	7.2	15.9	15.5	13.4	7.1	14.8	7.9	5.5	8.3	5.0	6.1	5.9	12.4	11.6	7.3	3.5
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		27.4	28.40	14.9	10.7	29.3	20.2	19.2	14.4	24.8	11.6	7.3	13.5	6.0	8.0	11.3	18.9	15.9	17.82	4.8
Total Concentration of VOCs		27.4	29.16	14.9	10.7	29.3	20.2	19.2	14.4	24.8	11.6	7.3	13.5	6.0	8.0	11.3	18.9	15.9	17.82	4.8

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-3 (well is on annual sampling) Aug-97	(D)*	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Aug-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<0.5	<3
Freon 12		<3	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	25.7	31.0	8.6	4.4	3.5	<1	1.2	2.2	4.6	7.8	10.3	15.6	11.7	11.7	25.4	10.0	15.8
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	33.7	51.0	7.9	3.5	3.2	1.0	2.1	3.3	6.2	8.8	10.8	20.6	15.5	20.8	38.3	15.0	31.3
cis-1,2-Dichloroethene	6	15.9	20.0	2.2	1.7	1.5	<1	<1	1.7	3.2	5.0	5.7	12.1	7.6	7.0	22.1	9.7	18.3
trans-1,2-Dichloroethene	10	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<2	11.7	5.2	2.8	<1	<1	<1	<1	2.2	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<2	<1	<1	<1	<1	<1	<1	<1	4.3	1.9	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	12.3	18.0	16.1	9.5	5.1	1.2	1.7	1.9	2.6	4.3	3.6	5.2	4.4	4.1	9.1	3.9	8.2
Freon-113	1200	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-123A					<1	<1	<1	<1	<1	3.5	<1	8.4	12.7	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	5.2	8.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.7	<1	<1	8.1	1.5	2.8
Total Halogenated Hydrocarbons		92.8	128.3	46.5	24.3	16.1	2.2	5.0	9.1	20.1	32.4	40.7	68.9	39.2	43.6	103.0	40.1	76.4
Total Concentration of VOCs		92.8	128.3	46.5	24.3	16.1	2.2	5.0	9.1	20.1	32.4	40.7	68.9	39.2	43.6	103.0	40.1	76.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-4 (well is on annual sampling)																
		Aug-97	(D)*	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Jan-99	May-99	Jan-00	Aug-00	Jan-01	Aug-01*	Feb-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	7.1	9.0	7.0	2.7	<1	<1	<1	<1	<1	<1	<3	<3	<0.5	<3	<3	<3	<3
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	0.74	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-123A					<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		7.1	9.74	7.0	2.7													
Total Concentration of VOCs		7.1	9.74	7.0	2.7													

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-12 (well is on semi-annual sampling)																		
		Oct-97	(D)*	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Jan-03	Aug-03*	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons												1.4								
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	17.2	13.0	20.5	1.5	3.6	<1	2.0	8.3	7.3	8.5	5.0	13.3	8.7	8.5	14.8	11.3	8.2	13.2	6.0
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	15.3	14.0	17.5	1.7	4.8	<1	1.9	7.5	7.0	7.7	5.4	13.3	10.7	10.7	13.4	13.5	9.6	14.7	7.8
cis-1,2-Dichloroethene	6	39.6	45.0	49.5	5.0	11.9	1.7	6.6	31.4	25.0	22.3	15.8	50.5	34.3	33.8	55.2	54.7	37.0	63.2	30.2
trans-1,2-Dichloroethene	10	5.4	5.8	6.6	<1	1.8	<1	<1	2.5	2.2	3.3	1.6	5.6	4.2	3.8	5.6	6.3	4.2	7.4	3.4
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	3.1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	1.4	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	8.1	7.4	12.2	1.0	2.8	<1	<1	5.6	2.8	3.1	2.7	7.1	5.3	3.7	5.2	5.4	3.4	7.1	3.3
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A					<1	1.5	<1	<1	2.0	3.2	<1	2.4	5.5	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	15.6	14.0	21.0	<1	4.9	<1	1.8	6.3	5.1	3.6	2.9	8.1	3.2	2.2	2.9	4.3	2.0	4.5	1.6
Total Halogenated Hydrocarbon		101.2	99.2	127.3	9.2	31.3	1.7	12.3	66.7	52.6	48.5	35.8	103.4	66.4	62.7	97.1	95.5	64.4	111.5	52.3
Total Concentration of VOCs		101.2	99.2	127.3	9.2	31.3	1.7	12.3	66.7	52.6	48.5	37.2	103.4	66.4	62.7	97.1	95.5	64.4	111.5	52.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-13 (well is on semi-annual sampling)																			
		Oct-97	(D)*	Nov-97	Mar-98	Jun-98	(S)*	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Jan-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<1	<2	<2	<2	2.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons											3.9					1.0					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon 12		<3	<0.5	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	14.9	12.0	11.3	11.1	1.2	1.1	4.6	8.6	8.9	7.7	9.5	9.2	9.7	9.3	8.7	11.4	8.6	8.3	8.3	7.7
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	16.1	16.0	13.6	17.8	3.3	3.1	6.7	11.5	12.3	1.1	12.1	9.8	11.9	10.0	8.8	7.4	13.9	5.2	6.4	4.2
cis-1,2-Dichloroethene	6	6.6	6.9	5.7	5.3	<1	<0.5	2.3	4.8	5.0	3.6	5.4	4.6	5.5	5.0	3.9	3.6	5.0	2.8	3.5	2.6
trans-1,2-Dichloroethene	10	<1	0.56	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	3.3	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	2.2	2.4	2.0	3.3	<1	<0.5	1.1	1.7	1.7	1.5	3.4	1.1	<1	<1	1.1	<1	1.6	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A					1.6	<1		<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	9.2	10.0	9.8	4.4	<1	0.87	4.9	8.4	5.2	2.2	2.1	4.0	13.2	13.7	6.8	17.3	3.3	14.7	7.4	6.0
Total Halogenated Hydrocarbons		49.0	47.86	42.4	43.5	4.5	5.07	19.6	35.0	33.1	17.2	35.8	28.7	40.3	38.0	29.3	39.7	32.4	31.0	25.6	20.5
Total Concentration of VOCs		49.0	47.86	42.4	43.5	4.5	5.07	19.6	35.0	33.1	21.1	35.8	28.7	40.3	38.0	30.3	39.7	32.4	31.0	25.6	20.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-14 (well is on annual sampling)												
		Oct-97	(D)*	Nov-97	Feb-98	May-98*	Nov-98	Jan-99*	Apr-99	Aug-00	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<3	<3	<3	<3	<3
Freon 12		<3	<0.5	<3	<3	<0.5	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs														

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-15																															
		Oct-97	Oct-97	(D)*	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Sep-99	Nov-99	Jan-00	May-00	Aug-00	Nov-00	Jan-01	May-01	Jul-01	Nov-01	Feb-02	May-02	Jul-02	Oct-02	Jan-03	Feb-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																																	
Benzene	1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																																	
Halogenated Non-Aromatic Hydrocarbons																																	
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon 12		<3	<3	<0.5	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.9	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																										3.9							
Total Concentration of VOCs																										3.9							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-97-16 (well is on semi-annual sampling)																	
		Oct-97	(D)*	Nov-97	Mar-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Jun-01 (G)	Sep-01	Feb-02	Sep-02	Feb-03	Aug-03
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	3.2	3.2	1.8	2.1	2.9	2.3	2.3	1.9	3.0	2.3	2.9	<1	<1	4.3	2.9	1.6	1.7	3.7
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	0.61	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	17.3	17.0	7.2	5.8	6.7	5.2	5.5	4.5	6.3	6.8	6.8	1.4	1.9	6.8	3.9	1.6	1.4	<1
trans-1,2-Dichloroethene	10	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.9	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	18.2	20.0	16.1	15.6	13.1	6.8	7.4	6.1	8.6	8.0	7.3	8.0	12.2	6.2	7.7	8.2	7.4	8.5
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	0.85	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		38.7	42.96	25.1	23.5	22.7	14.3	15.2	12.5	17.9	17.1	17.0	9.4	14.1	19.2	14.5	12.5	10.5	12.2
Total Concentration of VOCs		38.7	42.96	25.1	23.5	22.7	14.3	15.2	12.5	17.9	17.1	17.0	9.4	14.1	19.2	14.5	12.5	10.5	12.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-98-5 (well is on semi-annual sampling)																	
		Oct-99	(D)*	Nov-99	Mar-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Sep-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	4.8		
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	0.50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	0.58	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	0.65	<1	1.1	1.7	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	1.5	4.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	2.2	2.3	2.3	3.0	2.7	2.3	2.1	3.1	2.8	2.4	2.2	2.4	2.3	1.8	2.7	3.0	2.3	2.9
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		2.2	4.03	2.3	5.6	8.6	2.3	2.1	4.3	2.8	2.4	2.2	2.4	2.3	1.8	2.7	3.0	2.3	4.4
Total Concentration of VOCs		2.2	4.03	2.3	5.6	8.6	2.3	2.1	4.3	2.8	2.4	2.2	2.4	2.3	1.8	2.7	7.8	2.3	4.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-99-1 (well is on annual sampling)														
		Nov-99 (G)	Dec-99	(D)*	May-00	Aug-00	Nov-00	Feb-01	May-01	Jul-01	Nov-01	Mar-02	May-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																
Total Concentration of VOCs																

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-00-1 (well is on annual sampling)													
		Feb-00	(D)*	May-00	Aug-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Feb-02	May-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons															
Total Concentration of VOCs															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-00-8 Sep-01	Sep-02	Nov-02	(D)*	Feb-03	Apr-03	Aug-03	Nov-03	Mar-04	May-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<20	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<20	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<20	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Carbon Tetrachloride	0.5	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<30	<0.5	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<30	<300	<0.5	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<20	<0.5	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<3	<30	<0.5	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	8.7	6.3	<10	5.6	5.1	4.6	5.4	5.6	4.6	4.9	5.4
1,2-Dichloroethane	0.5	<2	<2	<20	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	5.8	3.3	<10	2.7	1.4	1.2	<1	2.3	1.9	2.5	3.0
cis-1,2-Dichloroethene	6	8.3	6.1	<10	7.2	4.6	4.1	7.2	7.5	5.3	6.3	6.0
trans-1,2-Dichloroethene	10	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<10	<0.5	<1	<1	<1	<1	2.3	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	3.8	<1	<10	1.2	1.5	1.5	2.1	2.1	<1	1.1	<1
Total Halogenated Hydrocarbons		26.6	15.7		16.7	12.6	11.4	14.7	17.5	14.1	14.8	14.4
Total Concentration of VOCs		26.6	15.7		16.7	12.6	11.4	14.7	17.5	14.1	14.8	14.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-00-9 Apr-01	(D)*	Sep-01	Nov-01	Feb-02	May-02	Sep-02	Oct-02	Feb-03	Apr-03	Aug-03	Dec-03	Feb-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	2.1	1.7	1.3	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	1.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		2.1	3.4	1.3	1.1											
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	3.0	2.6	2.7	3.1	2.6	3.5	2.6	2.5	2.6	2.4	2.9	2.4	2.4	2.4	3.3
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	8.2	7.5	8.0	10.5	9.8	9.6	11.0	8.5	10.0	10.7	12.9	9.1	8.4	12.0	15.3
trans-1,2-Dichloroethene	10	<1	0.59	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	3.4	2.8	2.1	1.8	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	5.3	0.73	1.3	1.9	1.2	2.8	2.0	1.4	<1	1.9	<1	<1	<1	2.1	1.1
Total Halogenated Hydrocarbons		19.9	14.22	14.1	17.3	14.9	15.9	15.6	12.4	12.6	15.0	15.8	11.5	10.8	16.5	19.7
Total Concentration of VOCs		22.0	17.62	15.4	18.4	14.9	15.9	15.6	12.4	12.6	15.0	15.8	11.5	10.8	16.5	19.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51-00-10 Apr-01	(D)*	Sep-01	Nov-01	Feb-02	Jun-02	Sep-02	Nov-02	Feb-03	Apr-03	Aug-03	Dec-03	Feb-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	9.7	9.7	7.9	8.4	6.6	8.2	5.2	6.9	5.9	5.2	6.3	6.0	5.8	5.3	5.8
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	5.6	5.8	3.3	3.8	1.8	1.6	2.6	2.5	3.4	2.7	3.7	4.2	4.3	3.4	4.0
trans-1,2-Dichloroethene	10	<1	0.76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	8.9	3.7	1.6	<1	1.5	<1	2.3	1.1	<1	<1	2.5	1.7	<1	1.1	1.6
Total Halogenated Hydrocarbons		24.2	19.96	12.8	12.2	9.9	9.8	10.1	11.5	9.3	7.9	12.5	11.9	10.1	9.8	11.4
Total Concentration of VOCs		24.2	19.96	12.8	12.2	9.9	9.8	10.1	11.5	9.3	7.9	12.5	11.9	10.1	9.8	11.4

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51A-01-10A Oct-01	Jan-02	Jun-02	(D)*	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs														

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51A-01-11 Oct-01	(D)*	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs														

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51B-93-18A (well is on semi-annual sampling)																														
		Jun-94*	(D)†	Sep-94	Dec-94*	Mar-95*	Jun-95*	(D)*	(S)*	Aug-95	Nov-95	Feb-96	Jun-96	Sep-96	Dec-96*	Mar-97	Jun-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Feb-03	Aug-03*	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																																
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methyl tert-Butyl Ether																	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.7	2.5	<5
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
Total Aromatic Hydrocarbons																													1.7	2.5	
Halogenated Non-Aromatic Hydrocarbons																																
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Chloroform	100	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<0.5	<3
Freon 12		<0.5	<5	<20	<0.5	0.66	<0.5	<0.5	<0.5	<5	<2	<2	<2	<2	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<0.5	<3
1,1-Dichloroethane	5	1.8	<5	1.7	1.2	<0.5	1.4	1.2	1.4	2.8	4.2	1.3	3.7	2.0	2.3	3.1	1.9	2.9	1.3	5.6	7.2	6.9	1.9	2.8	7.1	9.6	2.4	10.9	6.3	11.0	7.2
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
1,1-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	3.0	<1	2.1	<1	1.5	1.6	1.3	2.0	<1	2.7	3.2	3.6	<1	<1	4.6	6.6	<1	6.1	2.4	7.4	3.7
cis-1,2-Dichloroethene	6	8.6	13.0	4.0	3.8	<0.5	6.7	5.0	6.3	18.1	21.9	2.5	19.6	6.5	8.0	12.1	7.7	11.1	4.8	14.7	10.1	13.0	5.2	4.0	13.8	15.5	1.8	19.7	13.0	21.0	16.0
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	1.6	<1	1.2	<1	0.7	<1	<1	<1	<1	<1	1.2	1.5	<1	<1	1.6	1.5	<1	2.4	1.4	2.9	2.1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	1.0	<5	<1	0.76	0.55	0.68	<0.5	<0.5	<1	<1	4.2	2.1	2.7	<0.5	<1	<1	<1	<1	<1	1.4	1.7	<1	<1	2.1	1.9	<1	3.2	1.1	3.3	1.7
1,1,1-Trichloroethane	200	<0.5	<5	<1	3.8	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Trichloroethene	5	12.0	14.0	16.4	5.6	2.4	7.0	5.2	6.3	23.5	34.6	5.4	22.0	13.3	35.0	24.9	73.3	69.8	49.9	48.5	61.8	45.0	28.4	12.5	59.4	67.6	8.1	92.0	46.0	95.0	73.8
Freon-113	1200	<0.5		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Freon-123A																		<1	<1	1.2	1.8	<1	<1	<1	<1	<1	<1	<1			<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<1	<1	<1	<1	0.63	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<1	1.9	<0.5	1.2	<1
Total Halogenated Hydrocarbo		23.4	27.0	22.1	15.16	3.61	15.78	11.4	14.0	49.1	65.3	13.4	50.7	24.5	48.13	41.7	84.2	85.8	56.0	72.7	86.7	73.1	35.5	19.3	88.6	102.7	12.3	136.2	70.2	141.8	104.5
Total Concentration of VOCs		23.4	27.0	22.1	15.16	3.61	15.78	11.4	14.0	49.1	65.3	13.4	50.7	24.5	48.13	41.7	84.2	85.8	56.0	72.7	86.7	73.1	35.5	19.3	88.6	102.7	12.3	136.2	71.9	144.3	104.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN

(D) = Duplicate sample
(S) = Split sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Wells

Constituent	MCL	51L-01-1A					51L-01-1B														
		Jan-03	Nov-03	Feb-04	May-04	Jul-04	Sep-01	Oct-01	(D)*	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<70	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<70	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<70	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<200	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<70	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<70	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<70	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon 12		<3	<3	<3	<3	<3	<3	<3	<70	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<70	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	6.9	11.6	1.9	4.2	4.8	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	1.1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	1.2	1.2	<1	<1	1.5	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<70	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		9.2	12.8	1.9	4.2	6.3															
Total Concentration of VOCs		9.2	12.8	1.9	4.2	6.3															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51L-01-3 Jan-02	(D)*	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons													
Total Concentration of VOCs													

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51L-01-4 Sep-01	Jun-02	(D)*	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03*	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	0.55	<1	<1	<1	<1	1.2	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	0.76	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons				0.55					1.96				
Total Concentration of VOCs				0.55					1.96				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51L-01-5A Sep-01	Jan-02	(D)*	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03*	Nov-03	Mar-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs														

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51L-01-5B													
		Sep-01	Nov-01	(D)*	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03#	Nov-03	Mar-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons															
Total Concentration of VOCs															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
#-surrogate recovery low

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	51L-01-6 Sep-01	Jan-02	(D)*	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03*	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	1.8	<5	<5	<5	<5	<5	0.54	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons				1.8						0.54				
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs				1.8						0.54				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Wells

Constituent	MCL	51L-01-7											51L-02-1								
		Sep-01	Jul-02	(D)*	Oct-02	Jan-03	Apr-03	Jul-03*	Nov-03	Mar-04	May-04	Jul-04	Jan-02	Jan-03	(D)*	Apr-03	Aug-03	Nov-03	Mar-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
Chloroethane		<30	<30	<0.5	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30
Dibromochloromethane		<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon 12		<3	<3	<0.5	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	3.7	1.2	1.1	<1	<1	<1	1.1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	1.2	<0.5	<1	6.7	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons													3.7	2.4	1.1		6.7		1.1		
Total Concentration of VOCs													3.7	2.4	1.1		6.7		1.1		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	56-98-2 (well is on semi-annual sampling)																						
		Jul-98	(D)*	Nov-98	Feb-99	May-99	Sep-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Aug-02	Jan-03	Aug-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	0.61	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons			0.61																				
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Chloroethane		<30	0.97	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Dibromochloromethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	1.6	2.3	1.2	<1	<1	<1	<1	<1	<1	<1	1.2	3.1	2.6	1.2	1.2	1.7	1.5	2.5	1.9	2.1	1.9	1.8
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	4.0	5.2	2.1	1.1	<1	1.1	<1	<1	1.4	<1	1.8	4.7	4.4	2.7	2.4	1.6	2.1	3.5	4.9	4.2	3.3	5.2
cis-1,2-Dichloroethene	6	2.0	2.7	1.4	<1	<1	<1	<1	<1	<1	<1	<1	1.7	1.8	1.2	1.5	<1	<1	1.8	2.4	2.3	1.8	2.1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Tetrachloroethene	5	<1	<0.5	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	1.5	1.6	1.2	<1	<1	<1	<1	<1	<1	<1	<1	1.4	1.4	<1	<1	<1	<1	<1	1.2	0.95	<1	1.1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	7.4	9.1	28.5	40.3	14.3	31.8	10.9	18.1	15.8	3.9	2.0	3.3	7.1	2.7	1.5	1.8	1.2	1.4	<1	0.98	1.1	<1
Total Halogenated Hydrocarbons		16.5	21.87	35.7	41.4	14.3	32.9	10.9	18.1	17.2	3.9	5.0	14.2	17.3	7.8	6.6	5.1	4.8	9.2	10.4	10.53	8.1	10.2
Total Concentration of VOCs		16.5	22.48	35.7	41.4	14.3	32.9	10.9	18.1	17.2	3.9	5.0	14.2	17.3	7.8	6.6	5.1	4.8	9.2	10.4	10.53	8.1	10.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 15 Well

Constituent	MCL	63-98-18 (well is on semi-annual sampling)																			
		Mar-99	(D)*	May-99	Sep-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Aug-02	Feb-03	Jul-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<0.5	<1	<1	1.9	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Dibromochloromethane		<2	0.58	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	0.75	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	1.4	2.2	2.0	<1	2.0	1.7	1.8	2.0	2.2	1.8	4.8	1.9	1.8	1.7	1.2	1.2	1.8	1.8	1.4	<1
Total Halogenated Hydrocarbons		1.4	3.53	2.0		3.9	1.7	1.8	2.0	2.2	1.8	4.8	1.9	1.8	1.7	1.2	1.2	1.8	1.8	1.4	
Total Concentration of VOCs		1.4	3.53	2.0		3.9	1.7	1.8	2.0	2.2	1.8	4.8	1.9	1.8	1.7	1.2	1.2	1.8	1.8	1.4	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	64-97-1 (well is on annual sampling)																
		Jul-97	(D)*	Nov-97	Mar-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Mar-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	0.87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	5.0	8.2	4.6	5.6	5.5	2.2	2.8	2.6	2.8	3.9	3.4	2.7	4.1	2.3	4.1	4.4	3.9
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		5.0	9.07	4.6	5.6	5.5	2.2	2.8	2.6	2.8	3.9	3.4	2.7	4.1	2.3	4.1	4.4	3.9
Total Concentration of VOCs		5.0	9.07	4.6	5.6	5.5	2.2	2.8	2.6	2.8	3.9	3.4	2.7	4.1	2.3	4.1	4.4	3.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 9 Well

Constituent	MCL	64-97-2 (well is on semi-annual sampling)																		
		Jul-97	(D)*	Nov-97	Mar-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Aug-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		2.5		
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon 12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	1.9	1.6	1.8	1.9	2.8	3.3	3.9	2.5	3.3	1.7	3.6
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	1.3	1.0	4.1	6.0	2.0	1.9	2.2	5.9	4.0	4.7	4.7	7.0	6.0	5.5	4.1	6.2	2.2	5.0
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<1	1.0
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	1.2	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	0.54	<1	1.7	1.8	<1	<1	<1	1.9	2.2	1.6	1.9	2.5	3.1	2.6	2.2	2.5	1.4	3.0
Freon-113	1200	<1	<0.5	<1	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.84	1.0	5.8	10.4	2.0	1.9	2.2	9.7	10.5	8.1	8.5	12.3	12.4	12.0	8.8	12.0	5.3	12.6
Total Concentration of VOCs			1.84	1.0	5.8	10.4	2.0	1.9	2.2	9.7	10.5	8.1	8.5	12.3	12.4	12.0	8.8	14.5	5.3	12.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-93-1 (well is on annual sampling)																												
		Oct-93	(D)*	Mar-94	Jun-94	Aug-94	(D)	Dec-94*	Mar-95*	Jun-95*	Aug-95	Dec-95	Feb-96	Jun-96	Aug-96	Dec-96	Feb-97	Aug-97	Mar-98	Sep-98	Feb-99	Aug-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																														
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,3-Trichloropropane		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																														
Halogenated Non-Aromatic Hydrocarbons																														
Bromodichloromethane	100	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroethane		<5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	11.1	9.5	11.8	10.1	3.8	5.3	15.0	3.5	4.5	9.2	6.2	3.6	4.5	4.3	4.2	1.5	1.8	<1	1.5	1.0	2.4	<1	1.3	1.4	1.4	<1	<1	1.2	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	1.8	<1	<1	<1	<0.5	<0.5	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	<0.5	<1
1,1,1-Trichloroethane	200	18.9	16.0	16.8	15.8	5.3	8.0	13.0	4.5	4.9	6.3	3.9	2.7	3.7	3.6	2.8	1.1	1.2	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	<0.5	1.1	<1	<1	<1	0.53	<0.5	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-11	150	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Freon-12		<20	<0.5	<20	<20	<20	<20	<0.5	<0.5	<0.5	<5	<2	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
Freon-113	1200	<1		11.9	4.3	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-123A																			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		30.0	25.5	43.4	30.2	9.1	13.3	28.53	8.0	11.02	15.5	10.1	6.3	8.2	7.9	7.0	2.6	3.0		1.5	1.0	4.9		1.3	1.4	1.4		3.0	1.2	
Total Concentration of VOCs		30.0	25.5	43.4	30.2	9.1	13.3	28.53	8.0	11.02	15.5	10.1	6.3	8.2	7.9	7.0	2.6	3.0		1.5	1.0	4.9		1.3	1.4	1.4		3.0	1.2	
Total Halogenated Hydrocarbons		30.0	25.5	31.5	25.9	9.1	13.3	28.5	8.0	11.0	15.5	10.1	6.3	8.2	7.9	7.0	2.6	3.0		1.5	1.0	3.4		1.3	1.4	1.4		3.0	1.2	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include bromodichloromethane, chloroform, or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-93-2 (well is on semi-annual sampling) Oct-93	(D)*	Mar-94	Jun-94	Aug-94	(D)	Dec-94*	Feb-95*	May-95*	Aug-95	(D)*	Dec-95	(D)*	Feb-96	Jun-96	Aug-96	Nov-96	Mar-97	Jun-97	Sep-97
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	1.3	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	1.8	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<2	<2	<2	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<2	<20	<2	<2	<2	<2
Total Aromatic Hydrocarbons					3.1																
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane	100	<1	<0.5	<1	<1	<1	<1	1.2	1.0	1.5	2.8	2.4	2.3	2.2	1.3	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<30	<0.5	<30	<0.5	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	0.8	<1	<1	<1	<1	20.0	17.0	26.0	65.0	47.0	65.6	52.0	53.1	11.2	11.9	13.0	5.4	4.8	4.5
1,1-Dichloroethane	5	<1	1.0	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	1.4	<1	3.3	1.4	0.99	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	1.3	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	1.2	<1	<1	1.0	<1	<1
trans-1,2-DCE	10	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	0.9	2.1	15.3	1.0	<1	0.52	0.93	<0.5	<1	<0.5	<1	<0.5	1.2	16.0	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	7.4	6.8	5.1	<1	2.7	2.9	1.3	1.1	1.3	<1	<0.5	<1	1.2	1.2	1.9	<1	<1	2.5	2.4	1.1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	10.9	11.0	24.9	9.8	11.4	12.9	5.5	3.4	2.4	3.5	3.4	2.1	2.4	1.3	22.4	7.9	10.1	16.9	10.9	8.3
Freon-11	150	2.0	<0.5	2.4	<1	<1	<1	0.87	1.3	1.8	<1	0.89	<1	<0.5	1.1	1.6	1.6	<2	<2	<2	<2
Freon-12		<20	<0.5	<20	<20	<20	<20	<0.5	<0.5	<0.5	<5	<0.5	<2	<0.5	<2	<2	<2	<2	<3	<3	<3
Freon-113	1200	1604.9	1000†	3816.0	8250.0	4198.7	8984.1	1200.0	610.0	370.0	593.0	320.0	290.0	260.0	665.0	203.0	306.0	175.0	141.0	140.0	44.5
Freon-114		<5		<5	<5	<5	<5				<5		<5		<5	<5	<5	<5	<3	<3	<3
Freon-123A																					
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1625.2	1020.5	3853.2	8275.1	4217.1	9001.3	1230.4	634.73	403.0	664.3	373.7	360.0	317.8	724.2	257.3	327.4	198.1	166.8	158.1	58.4
Total Concentration of VOCs		1625.2	1020.5	3853.2	8278.2	4217.1	9001.3	1230.4	634.73	403.0	664.3	373.7	360.0	317.8	724.2	257.3	327.4	198.1	166.8	158.1	58.4
Total Halogenated Hydrocarbons[a]		18.3	19.7	34.8	25.1	18.4	17.2	8.3	5.4	3.7	3.5	3.4	2.1	3.6	3.7	41.5	7.9	10.1	20.4	13.3	9.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include bromodichloromethane, chloroform, or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Tentatively identified compound
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-93-2 (continued) Dec-97	Feb-98	Jun-98	(S)*	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Jan-03	Jul-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,3-Trichloropropane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Hydrocarbons																			
Bromodichloromethane	100	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	1.5
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	4.8	2.2	1.5	1.3	1.6	1.9	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	9.6	25.1
1,1-Dichloroethane	5	<1	<1	<1	0.99	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-DCE	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	1.1	2.2	4.6	4.7	2.7	2.6	3.3	4.4	5.8	2.9	3.3	1.6	1.7	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	10.9	7.8	11.6	13.0	7.4	12.8	17.1	15.0	18.6	12.7	15.7	9.4	12.9	7.4	10.7	2.1	4.8	<1
Freon-11	150	<2	2.3	<2	3.5	<2	<2	<2	2.4	<2	<2	2.1	<2	<2	<2	<2	<0.5	<2	<2
Freon-12		<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Freon-113	1200	33.5	24.7	43.5	25.0	20.8	38.4	20.7	20.4	11.3	14.2	17.3	12.8	6.1	9.4	5.3	<0.5	4.4	3.0
Freon-114		<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	5.2		<3	<3
Freon-123A			<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		50.3	39.2	61.2	48.49	32.5	55.7	41.1	42.2	37.9	29.8	38.4	23.8	20.7	16.8	21.2	2.1	18.8	29.6
Total Concentration of VOCs		50.3	39.2	61.2	48.49	32.5	55.7	41.1	42.2	37.9	29.8	38.4	23.8	20.7	16.8	21.2	2.1	18.8	29.6
Total Halogenated Hydrocarbons[a]		12.0	10.0	16.2	18.7	10.1	15.4	20.4	19.4	26.6	15.6	19.0	11.0	14.6	7.4	10.7	2.1	4.8	0.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include bromodichloromethane, chloroform, or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(S) = Split sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-94-1 (well is on annual sampling)																			
		Jun-94*	(D)†	Aug-94	Dec-94*	Feb-95*	May-95*	(D)	Jun-95*	Aug-95	Dec-95	Feb-96	(D)*	Jun-96	Aug-96	(D)*	Nov-96	Mar-97	Jun-97	Sep-97	Nov-97
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<10	<1	0.79	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<10	<1	1.3	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<20	<1	<1	<1	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons									2.09												
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane	100	<0.5	<10	<1	0.85	1.0	<10	6.6	1.7	2.8	2.4	1.6	1.7	<1	<1	0.74	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Chloroethane		<0.5	<10	<5	<0.5	<0.5	<10	<30	<0.5	<30	<30	<30	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<30
Chloroform	100	<0.5	<5	<1	13.0	18.0	36.0	42.4	32.0	52.8	66.9	38.6	34.0	21.7	17.7	17.0	15.4	8.1	8.0	5.0	4.5
1,1-Dichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	0.97	<5	<1	0.93	<0.5	<10	<1	0.93	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
trans-1,2-DCE	10	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<0.5	<0.5	<10	<1	1.0	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	1.7	<5	<1	1.2	0.65	<10	<1	0.73	<1	<1	<1	<0.5	1.3	<1	0.82	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	4.2	<5	3.0	3.1	1.7	<10	2.0	1.6	1.3	1.1	<1	0.84	1.9	2.4	2.8	1.9	2.7	3.2	1.8	1.5
Freon-11	150	<0.5	<5	<1	0.55	<0.5	<10	3.9	0.53	<1	<1	<1	<0.5	<1	<2	0.76	<2	<2	<2	<2	<2
Freon-12		<0.5	<10	<20	<0.5	<0.5	<10	<5	<0.5	<5	<2	<2	<0.5	<2	<2	<0.5	<2	<3	<3	<3	<3
Freon-113	1200	620.0		1842.5	940.0	330.0	290.0	335.0	210.0	360.0	240.0	181.0	41.0	180.0	158.0	90.0	113.0	84.4	77.4	31.6	40.3
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<10	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		626.9		1845.5	959.63	351.35	326.0	389.9	248.49	416.9	310.4	221.2	77.54	204.9	178.1	112.12	130.3	95.2	88.6	38.4	46.3
Total Concentration of VOCs		626.9		1845.5	959.63	351.35	326.0	389.9	250.58	416.9	310.4	221.2	77.54	204.9	178.1	112.12	130.3	95.2	88.6	38.4	46.3
Total Halogenated Hydrocarbons		6.87		3.0	5.23	2.35		2.0	4.26	1.3	1.1		0.84	3.2	2.4	3.62	1.9	2.7	3.2	1.8	1.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include bromodichloromethane, chloroform, or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-94-1 (continued)													
		Feb-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Mar-02	Sep-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.4	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.4	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons												10.3			
Halogenated Hydrocarbons															
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	1.1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	1.9	2.4	1.5	1.6	<1	1.2	<1	<3	<3	<3	<3	<3	0.70	24.5
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-DCE	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.61	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	2.1	2.0	<1	1.0	2.9	2.1	4.0	2.5	4.8	2.2	2.8	2.8	<1
Freon-11	150	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Freon-12		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
Freon-113	1200	16.3	25.3	16.3	16.3	6.7	13.7	15.6	8.6	6.9	9.0	7.3	5.7	8.6	3.7
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		18.2	29.8	19.8	17.9	7.7	17.8	17.7	12.6	9.4	13.8	9.5	8.5	12.71	29.3
Total Concentration of VOCs		18.2	29.8	19.8	17.9	7.7	17.8	17.7	12.6	9.4	13.8	19.8	8.5	12.71	29.3
Total Halogenated Hydrocarbons[a]			2.1	2.0		1.0	2.9	2.1	4.0	2.5	4.8	2.2	2.8	3.41	0.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

[a] = Total does not include chloroform or Freon compounds

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-95-8 (well is on annual sampling)																								
		May-95*	(D)†	Aug-95	Dec-95	Mar-96	Jun-96	Aug-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Jul-00	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<10	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane	100	<0.5	<10	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<0.5	<10	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<0.5	<5	39.1	2.9	2.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<1	1.4	3.0	37.8	4.9	2.4	1.1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	<1	1.5	1.3	4.1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11	150	<0.5	<5	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-12		<0.5	<10	<5	<2	<2	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3	0.64	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-113	1200	<0.5		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A																<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				41.5	2.9	5.2	4.3	41.9	4.9	2.4	1.1						1.71									
Total Concentration of VOCs				41.5	2.9	5.2	4.3	41.9	4.9	2.4	1.1						1.71									
Total Halogenated Hydrocarbons[a]						2.9	4.3	41.9	4.9	2.4	1.1						1.07									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include bromodichloromethane, chloroform, or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-95-9 (well is on annual sampling) May-95*	(D)†	Aug-95	Dec-95	Feb-96	May-96	Jul-96	Dec-96*	Mar-97	May-97	May-98*	Jan-99	Apr-99	Jul-00	Jan-01	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<0.5	<5	<1	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,3-Trichloropropane		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<2	<2	<2	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<10	<1	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane	100	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroethane		<0.5	<10	<30	<30	<30	<30	<30	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<0.5	<30	<30	<30
Chloroform	100	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<3	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	0.94	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<1	<1	<1	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	1.0	<5	<1	<1	1.8	1.1	<1	0.75	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloropropane	5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	0.64	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	0.76	<5	<1	<1	1.8	<1	<1	<0.5	<1	<1	0.53	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-11	150	<0.5	<5	<1	<1	<1	<1	<2	<0.5	<2	<2	0.97	<2	<2	<2	<2	<0.5	<2	<2	<2
Freon-12		<0.5	<10	<5	<2	<2	<2	<2	<2	<3	<3	<0.5	<3	<3	<3	<3	<2	<3	<3	<3
Freon-113	1200	<0.5		<5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-123A													<1	<1	<1	<1		<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbon		2.40				3.6	1.1		0.75			2.44								
Total Concentration of VOCs		2.40				3.6	1.1		0.75			2.44								

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71-97-23 (well is on semi-annual sampling)																		
		Oct-97	(D)*	Nov-97	Mar-98	May-98*	Sep-98	Nov-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Feb-03	Jul-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,3-Trichloropropane		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	1.4	1.8	1.4	1.8	1.6	1.2	1.2	1.0	1.4	2.4	3.0	2.8	2.3	1.7	1.4	1.2	1.0	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	1.2	<1	1.8	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.90	<1	<1
cis-1,2-Dichloroethene	6	1.3	1.8	1.2	1.9	1.8	1.1	1.2	1.6	1.5	2.5	2.1	3.0	2.6	1.6	1.9	2.2	2.4	2.0	1.6
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	1.1	1.2	2.6	3.1	1.8	2.4	2.5	2.2	2.0	1.7
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	1.5	<1	1.1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	5.4	6.7	5.6	9.7	6.5	4.6	5.0	4.8	5.3	9.2	8.8	10.9	9.1	7.0	7.2	6.1	5.5	4.8	4.0
Freon-11	150	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon-12		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A					3.4		1.3	1.1	1.3	1.9	<1	1.4	2.0	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbo		8.1	11.5	8.2	18.6	11.3	8.2	8.5	8.7	10.1	16.7	16.5	22.4	17.1	12.1	12.9	12.0	12.0	8.8	7.3
Total Concentration of VOCs		8.1	11.5	8.2	18.6	11.3	8.2	8.5	8.7	10.1	16.7	16.5	22.4	17.1	12.1	12.9	12.0	12.0	8.8	7.3
Total Halogenated Hydrocarbo		8.1	11.5	8.2	15.2	11.3	6.9	7.4	7.4	8.2	16.7	15.1	20.4	17.1	12.1	12.9	12.0	12.0	8.8	7.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
[a] = Total does not include chloroform or Freon compounds

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71B-98-13 (well is on semi-annual sampling)																						
		Jun-99	(D)*	Sep-99	Nov-99	Mar-00	May-00	Jun-00*	Sep-00	Nov-00	Mar-01	(D)*	May-01	Sep-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03	Nov-03	Feb-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<0.5	<3	<3	<3	<3	<0.5	<6	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<0.5	<4	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<0.5	<4	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<1	<4	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<0.5	<30	<30	<30	<30	<0.5	<60	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<0.5	<6	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<4	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	1.1	<1	<1	<1	<1	1.0	<2	<1	1.1	0.98	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	58.0	45.0	47.5	61.1	51.6	65.8	43.0	53.4	89.2	91.1	71.0	68.0	65.5	46.9	58.7	81.0	74.9	63.8	57.3	61.9	52.7	30.1	5.6
trans-1,2-Dichloroethene	10	<1	0.57	<1	<1	<1	<1	1.5	<2	<1	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	146.0	180.0	90.1	112.0	36.1	104.0	210.0	171.9	68.8	131.8	120.0	149.7	106.8	102.8	121.9	130.1	75.3	115.0	143.0	4.8	4.1	3.9	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	86.4	91.0	81.4	79.6	50.4	120.0	100.0	119.3	128.4	85.1	77.0	71.8	88.0	68.0	90.5	88.7	71.0	89.8	78.1	10.6	5.9	3.8	<1
Freon-11	150	<2	<0.5	<2	<2	<2	<2	<0.5	<4	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-12		<3	<0.5	<3	<3	<3	<3	<0.5	<6	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1		<1	<1	<1	<1		<2	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	2.6	4.0	3.9	3.7	7.7	3.8	2.9	3.0	6.5	5.8	3.4	16.0	5.3	2.8	5.9	5.3	4.1	5.2	2.9	12.9	3.4	7.9	<1
Total Halogenated Hydrocarbons		293.0	321.67	222.9	256.4	145.8	293.6	358.4	347.6	292.9	314.9	274.18	305.5	265.6	221.7	277.0	305.1	225.3	273.8	281.3	90.2	66.1	45.7	5.6
Total Concentration of VOCs		293.0	321.67	222.9	256.4	145.8	293.6	358.4	347.6	292.9	314.9	274.18	305.5	265.6	221.7	277.0	305.1	225.3	273.8	281.3	90.2	66.1	45.7	5.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71B-99-3R Apr-01	(D)*	Aug-01 (G)	Nov-01 (G)	Feb-02 (G)	May-02	Aug-02	Oct-02	Feb-03	Apr-03	Sep-03	Nov-03	Feb-04	May-04	Aug-04
Aromatic and Non-Halogenated Hydrocarbons																
Benzene	1	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
n-Butylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	16.2	<1	<10	<10	<10
sec-Butylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
ter-Butylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Ethylbenzene	300	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Hexachlorobutadiene		<300	5.8#	<3	<30	<3	<3	<30	<30	<3	<3	<30	<3	<30	<30	<30
Isopropylbenzene		<200	<3	<2	<20	<2	<2	<20	<20	<2	<2	<20	<2	<20	<20	<20
p-Isopropyltoluene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Naphthalene		<200	<3	<2	<20	<2	<2	<20	<20	<2	<2	22.4	<2	<20	<20	<20
n-Propylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Toluene	150	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,2,4-Trichlorobenzene	5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,2,3-Trichloropropane		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,2,4-Trimethylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,3,5-Trimethylbenzene		<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Xylenes, total	1750	<200	<5	<2	<20	<2	<2	<20	<20	<2	<2	<20	<2	<20	<20	<20
Total Aromatic Hydrocarbons			5.8									38.6				
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane	100	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Carbon Tetrachloride	0.5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Chloroethane		<3000	<3	<30	<300	<30	<30	<300	<300	<30	<30	<300	<30	<300	<300	<300
Chloroform	100	<300	<3	<3	<30	<3	<3	<30	<30	<3	<3	<30	<3	<30	<30	<30
1,1-Dichloroethane	5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,2-Dichloroethane	0.5	<200	<3	<2	<20	<2	<2	<20	<20	<2	<2	<20	<2	<20	<20	<20
1,1-Dichloroethene	6	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
cis-1,2-Dichloroethene	6	<100	7.2	1.9	<10	10.1	2.2	<10	<10	4.4	3.1	153.0	198.0	154.0	123.0	50.5
trans-1,2-Dichloroethene	10	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,2-Dichloropropane	5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Methylene Chloride	5	<100	<5	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Tetrachloroethene	5	1,190.5	900.0	667.0	385.4	1,306	677.0	368.5	396.2	1,550	915.0	238.0	61.9	217.0	149.0	104.0
1,1,1-Trichloroethane	200	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
1,1,2-Trichloroethane	5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Trichloroethene	5	180.7	25.0	9.9	<10	35.2	16.3	<10	<10	25.5	13.5	54.3	19.8	410.0	384.0	257.0
Freon-11	150	<200	<3	<2	<20	<2	<2	<20	<20	<2	<2	<20	<2	<20	<20	<20
Freon-12		<300	<3	<3	<30	<3	<3	<30	<30	<3	<3	<30	<3	<30	<30	<30
Freon-113	1200	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Freon-123A		<100		<1	<10	<1	<1	<10	<10	<1	<1	<10	<1	<10	<10	<10
Vinyl Chloride	0.5	<100	<3	<1	<10	<1	<1	<10	<10	<1	<1	<10	16.1	71.8	23.6	<10
Total Halogenated Hydrocarbons		1,371.2	932.2	678.8	385.4	1351.3	695.5	368.5	396.2	1579.9	931.6	445.3	295.8	852.8	679.6	411.5
Total Concentration of VOCs		1,371.2	938.0	678.8	385.4	1351.3	695.5	368.5	396.2	1579.9	931.6	483.9	295.8	852.8	679.6	411.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

#-Compound found in method blank at 1.2 µg/L

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	71B-00-2 Mar-00 (G)	Apr-00 (G)	Apr-00 (G)	May-00 (G)	May-00 (G)	Jun-00	(D)*	Sep-00	Nov-00	Feb-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic and Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	3.8	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	3.2	<1	<1	<1	1.0	1.7	0.50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	16.0	2.9	3.4	2.3	2.9	4.9	1.7	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	17.1	2.3	2.7	1.6	1.3	4.7	0.83	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11	150	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-12		<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbo		40.1	5.2	6.1	3.9	5.2	11.3	3.03	1.8														1.1		
Total Concentration of VOCs		40.1	5.2	6.1	3.9	5.2	11.3	3.03	1.8														1.1		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	MW90-3 (well is on semi-annual sampling)																				
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	(D)	Jun-94	Aug-94	Nov-94*	Mar-95*	Jun-95*	Sep-95	Dec-95	(S)*	Feb-96	Aug-96	Dec-96	(D)*	Mar-97	(D)*
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<2	<2	<0.5	<2	<0.5
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<2	<2	<0.5	<2	<0.5
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
1,2,3-Trichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	1.1	<2	<1	<1	<0.5	<1	<0.5
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<0.5	<2	<1	<1	<0.5	<1	<0.5
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<2	<2	<1	<2	<1
Total Aromatic Hydrocarbons																1.1						
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	4.2	<1	<0.5	<1	<0.5
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
Chloroethane		<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<30	<30	<0.5	<30	<30	<30	<0.5	<30	<0.5
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	84.9	40.0	32.0	22.4	18.0
1,1-Dichloroethane	5	11.2	2.6	5.5	2.8	5.7	3.4	3.2	2.4	1.8	3.1	2.7	2.6	2.7	2.6	2.6	3.4	<1	<1	0.97	<1	1.0
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<2	<2	<0.5	<2	<0.5
1,1-Dichloroethene	6	10.9	1.5	3.0	1.8	1.9	3.0	2.9	1.3	1.2	1.7	1.5	1.7	1.8	1.8	1.3	1.5	<1	<1	0.59	<1	0.57
cis-1,2-Dichloroethene	6	16.5	8.5	19.6	13.8	16.2	16.7	13.5	11.5	13.4	13.0	13.0	14.0	20.7	22.1	17.0	24.5	<1	11.0	12.0	13.8	14.0
trans-1,2-Dichloroethene	10	9.4	1.2	2.3	1.4	<1	2.1	1.8	1.0	1.3	1.6	1.6	1.6	2.1	2.3	1.7	<1	<1	<1	0.94	<1	1.1
1,2-Dichloropropane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	26.7	27.5	32.7	21.3	25.1	28.0	26.9	14.6	22.2	20.0	19.0	19.0	21.3	25.2	19.0	20.8	<1	10.6	12.0	10.3	13.0
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
Trichloroethene	5	14.6	10.7	21.0	13.8	13.4	20.3	19.7	9.7	19.2	15.0	16.0	18.0	22.1	24.6	21.0	26.6	<1	18.4	17.0	19.1	22.0
Freon-11	150	<1.1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<2	<2	<0.5	<2	<0.5
Freon-12		<14.4	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<0.5	<0.5	<5	<2	<0.5	<2	<2	<2	<0.5	<3	<0.5
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<0.5	<1	<1	<1	<0.5	<1	<0.5
Freon-123A																						
Vinyl Chloride	0.5	6.1	3.3	10.2	4.5	6.0	5.8	5.3	1.7	<1	2.2	2.5	2.8	3.1	2.2	3.8	3.6	<1	<1	0.64	<1	0.92
Total Halogenated Hydrocarbons		95.4	55.3	94.3	59.4	68.3	79.3	73.3	42.2	59.1	56.6	56.3	59.7	73.8	80.8	66.4	80.4	89.1	80.0	76.14	65.6	70.59
Total Concentration of VOCs		95.4	55.3	94.3	59.4	68.3	79.3	73.3	42.2	59.1	56.6	56.3	59.7	73.8	80.8	67.5	80.4	89.1	80.0	76.14	65.6	70.59

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(S) = Split sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	MW90-3 (continued)														
		Sep-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Feb-03	Jul-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	10.3	13.5	5.0	4.8	6.5	3.9	3.1	<3	3.4	<3	<3	<3	1.8	<3	<3
1,1-Dichloroethane	5	<1	1.6	1.2	1.1	2.0	1.6	1.3	1.5	1.9	2.0	1.6	1.6	1.6	1.7	1.1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	0.78	<1	<1
cis-1,2-Dichloroethene	6	13.6	20.8	16.3	18.2	14.8	15.4	15.9	13.6	17.5	15.7	15.6	13.4	16.0	12.1	11.2
trans-1,2-Dichloroethene	10	<1	1.4	<1	<1	1.1	1.1	<1	<1	1.1	<1	<1	<1	0.83	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	11.9	19.6	14.4	13.6	11.8	14.3	9.7	9.2	12.3	9.4	9.5	8.9	9.1	6.3	7.9
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	18.1	31.0	19.2	18.0	18.2	16.0	13.0	12.1	16.0	13.1	12.5	10.9	11.0	8.8	10.1
Freon-11	150	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon-12		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.59	<1	<1
Total Halogenated Hydrocarbons		53.9	87.9	56.1	55.7	54.4	52.3	43.0	36.4	53.2	40.2	39.2	34.8	41.7	28.9	30.3
Total Concentration of VOCs		53.9	87.9	56.1	55.7	54.4	52.3	43.0	36.4	53.2	40.2	39.2	34.8	41.7	28.9	30.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

		MW90-4 (well is on annual sampling)																																
Constituent	MCL	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	Jun-95*	Sep-95	Nov-95	Feb-96	Jun-96	Sep-96	Dec-96	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Sep-00	Feb-01	Aug-01	Feb-02	May-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																																		
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons								2.0																5.0									
Halogenated Non-Aromatic Hydrocarbons																																		
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<5	<1	<1	<1	<1	<1	1.3	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	11.4	1.9	3.2	2.3	2.3	1.8	2.1	1.0	2.1	2.2	1.9	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	1.8	<1	<1	1.4	1.1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7
trans-1,2-DCE	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<5	<1	<1	<1	<1	<1	1.1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	2.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	1.1	1.6	1.3	1.5	1.8	1.3	1.4	1.0	1.2	0.96	<1	1.7	<1	<1	<1	1.0	<1	<1	1.4	<1	<1	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11	150	<1.1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-12		<14.4	<20	<20	<20	<20	<20	<20	<20	<0.5	<0.5	<0.5	<5	<2	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A																					2.5	1.3	1.1	1.7	<1	1.4	1.4	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		11.4	3.0	4.8	3.6	3.8	3.6	5.8	2.4	3.1	3.4	2.86	1.8	5.6		1.4	1.1	2.1			3.9	1.3	1.1	6.6		1.4	1.4	1.1					1.7
Total Concentration of VOCs		11.4	3.0	4.8	3.6	3.8	3.6	7.8	2.4	3.1	3.4	2.86	1.8	5.6		1.4	1.1	2.1			3.9	1.3	1.1	11.6		1.4	1.4	1.1					1.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	MW90-5 (well is on semi-annual sampling)																					
		Dec-92	Feb-93	Mar-93	(D)	May-93	Jun-93	Sep-93	Dec-93•	Mar-94	Jun-94	Sep-94	Dec-94	Feb-95*	Apr-95*	Nov-95	Feb-96	Jun-96	Jul-96	Nov-96	Mar-97	May-97	Sep-97
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	9.9	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<10.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		9.9					
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<10.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<5	<5	<5	<5	<5	<5	<5	<10.0	<5	<5	<5	<30	<0.5	<0.5	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	2.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	1.0	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	0.69	0.75	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	4.1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	1.0	<1	1.8	2.1	11.3	<1	<1	1.1	<1	1.5	<1	<1
trans-1,2-DCE	10	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	5.4	1.2	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	7.1	<1	<1	<1	<1	<1	<1	<1
Freon-11	150	<1.1	<1	<1	<1	<1	<1	<1	<5.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2
Freon-12		<14.4	<20	<20	<20	<20	<20	<20	<10.0	<20	<20	<20	<20	<0.5	<0.5	<2	<2	<2	<2	<2	<3	<3	<3
Freon-113	1200	<0.6	<1	<1	<1	2.0	<1	<1	<5.0	<1	9.8	<1	<1	<0.5	<0.5	9.4	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<10.0	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.0			2.0					9.8	1.0		2.49	2.85	35.7	1.2	4.1	1.1		1.5		
Total Concentration of VOCs			1.0			2.0					9.8	1.0		2.49	2.85	35.7	1.2	14.0	1.1		1.5		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
• = Analysis by AEN Laboratory

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 1 Well

Constituent	MCL	MW90-5 (continued)															
		Nov-97	Feb-98	May-98	Aug-98	Oct-98	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Jan-03	Jul-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons								1.5									
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	1.7	2.2	1.6	1.0	1.8	1.1	1.2	1.6	1.2	<1	<1
trans-1,2-DCE	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-11	150	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon-12		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons							1.7	2.2	1.6	1.0	1.8	1.1	1.2	1.6	1.2		
Total Concentration of VOCs							1.7	3.7	1.6	1.0	1.8	1.1	1.2	1.6	1.2		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 15 Well

Constituent	MCL	MWP-1 Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Nov-94*	Feb-95*	May-95*	Aug-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97	Nov-97	Jan-98	May-95*	Aug-98
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																									
Halogenated Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons																									
Total Concentration of VOCs																									

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analyzed by BC Laboratories

Table 5-1 (Cont'd)
Bevalac Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 15 Well

Constituent	MCL	MWP-1 (continued) Nov-98	Jan-99*	Apr-99	Aug-99	Oct-99	Jan-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																									
Total Concentration of VOCs																									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analyzed by BC Laboratories

Table 5-2
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51-96-6											SB51-98-1		
		Apr-96	Nov-96	Dec-97	Oct-00	Oct-01	Mar-02	Oct-02*	Mar-03	Sep-03	Mar-04	Sep-04	Apr-01	May-01	Oct-01
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		1.2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13			<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<1	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	1.3	<100	<1	<1	<1	<1	<0.5	1.3	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<200	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		2.5							1.3						
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<2	<400	<4	<4	<10	<10	<1	<10	<10	<10	<10	<4	<10	<10
Carbon Tetrachloride	0.5	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<3000	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<100	<1	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<1	<100	<1	<1	<10	<10	<0.5	<10	<10	<10	<10	<1	<1	<10
2-Chlorotoluene		<2	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	14.2	16.7	8.6
1,2-Dichloroethane	0.5	<2	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	1.1	<1	<1
cis-1,2-Dichloroethene	6	31.2	<100	3.6	2.2	7.3	4.5	6.7	1.4	3.6	4.4	8.4	56.1	64.3	27.9
trans-1,2-Dichloroethene	10	21.5	<100	4.0	<1	2.4	<1	2.2	<1	<1	2.1	2.4	<1	<1	<1
1,2-Dichloropropane	5	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<100	<1	<1	<1	<1	<0.5	3.5	<1	<1	<1	6.0	6.3	2.0
1,1,1-Trichloroethane	200	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	40.8	<100	1.1	<1	<1	5.4	4.3	<1	<1	3.1	2.1	29.9	40.4	15.7
Freon-11		<1	<200	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-114		<5	<500	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3
Freon-123A					<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	16.7	<100	<1	7.9	17.0	10.6	7.4	10.0	27.3	14.7	13.5	3.5	5.6	<1
Total Halogenated Hydrocarbons		110.2		8.7	10.1	26.7	20.5	20.6	14.9	30.9	24.3	26.4	110.8	133.3	54.2
Total Concentration of VOCs		112.7		8.7	10.1	26.7	20.5	20.6	16.2	30.9	24.3	26.4	110.8	133.3	54.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51-98-1 (continued)						SB51-98-2		SB51-98-4					
		Mar-02	Sep-02	Feb-03	Aug-03*	Feb-04*	Aug-04	Mar-02	Feb-04*	Jun-98	Oct-00	Apr-01	Oct-01	Mar-02	Oct-02*
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Chlorobenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<5	<5	<0.5	<0.5	<5	<5	<0.5	<5	<5	<5	<5	<5	<0.5
Naphthalene		<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Toluene	150	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<2	<2	<2	<1	<1	<2	<2	<1	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Bromomethane		<10	<10	<10	<1	<1	<10	<10	<1	<4	<4	<4	<10	<10	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Chloroethane		<30	<30	<30	<0.5	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<30	<0.5
Chloroform	100	<3	<3	<3	<0.5	<0.5	<3	<3	<0.5	<3	<3	<3	<3	<3	<0.5
Chloromethane		<10	<10	<10	<0.5	<0.5	<10	<10	<0.5	<1	<1	<1	<10	<10	<0.5
2-Chlorotoluene		<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethane	5	6.7	7.5	9.7	8.7	9.4	8.6	<1	<0.5	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<1	<1	<1	0.52	0.51	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	6	29.3	47.9	73.0	82.0	74.0	88.7	<1	<0.5	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<1	<1	<1	0.65	0.96	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
1,2-Dichloropropane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
Tetrachloroethene	5	<1	1.8	1.4	2.7	0.95	<1	<1	5.9	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	7.2	10.0	10.7	20.0	21.0	12.7	<1	1.0	<1	<1	<1	<1	<1	<0.5
Freon-11		<2	<2	<2	<0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5
Freon-113	1200	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Freon-114		<3	<3	<3			<3	<3		<3	<3	<3	<3	<3	
Freon-123A		<1	<1	<1			<1	<1		<1	<1	<1	<1	<1	
Vinyl Chloride	0.5	2.2	3.4	5.0	3.0	5.1	2.3	<1	<0.5	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons		45.4	70.6	99.8	117.57	111.92	112.3		6.9						
Total Concentration of VOCs		45.4	70.6	99.8	117.57	111.92	112.3		6.9						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51-98-4 (continued)				SB51-98-6									
		Feb-03	Aug-03*	Feb-04*	Aug-04	Jun-98	Oct-00	Apr-01	Oct-01	Mar-02	Sep-02	Feb-03	Aug-03*	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
n-Butylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
sec-Butylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
ter-Butylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Chlorobenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Ethylbenzene	300	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Isopropylbenzene		<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<5
Naphthalene		<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
n-Propylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Toluene	150	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Xylenes, total	1750	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Bromomethane		<10	<1	<1	<10	<4	<4	<4	<10	<10	<10	<10	<1	<1	<10
Carbon Tetrachloride	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Chloroethane		<30	<0.5	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<0.5	<30
Chloroform	100	<3	<0.5	<0.5	<3	<1	<3	<3	<3	<3	<3	<3	<0.5	<0.5	<3
Chloromethane		<10	<0.5	<0.5	<10	<1	<1	<1	<10	<10	<10	<10	<0.5	<0.5	<10
2-Chlorotoluene		<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
1,1-Dichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	0.53	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	0.91	<1	<1	<1	<1	<1	<1	<1	<1	0.55	<0.5	3.8
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2-Dichloropropane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
Tetrachloroethene	5	<1	<0.5	3.2	<1	<1	<1	<1	<1	<1	<1	1.4	0.99	2.6	6.4
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Trichloroethene	5	<1	<0.5	1.8	<1	<1	<1	<1	<1	<1	<1	<1	0.81	1.4	6.2
Freon-11		<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
Freon-113	1200	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Freon-114		<3			<3	<3	<3	<3	<3	<3	<3	<3			<3
Freon-123A		<1			<1	<1	<1	<1	<1	<1	<1	<1			
Vinyl Chloride	0.5	<1	<0.5	<0.5	<1	<1	<1	2.3	<1	<1	<1	<1	0.86	<0.5	<1
Total Halogenated Hydrocarbons				5.91				2.3				1.4	3.74	4.0	16.4
Total Concentration of VOCs				5.91				2.3				1.4	3.74	4.0	16.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51-98-8			SB51-98-9		SB51-03-1			SB51-03-2			SB51-03-3		
		Mar-02	Mar-03	Mar-04	Mar-02	Mar-04	Oct-03	Nov-03	Jan-04	Oct-03	Nov-03	Jan-04	Oct-03	Nov-03	Jan-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	1.1	1.1	1.3	4.0	23.7	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	1.3	16.1	31.3	3.5	8.1	7.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	1.0	1.4	4.6	1.5	10.1	24.8	1.5	2.0	2.1
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons							1.0	2.5	5.7	4.1	30.2	82.0	5.0	10.1	9.1
Total Concentration of VOCs							1.0	2.5	5.7	4.1	30.2	82.0	5.0	10.1	9.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51-03-4			SB51-03-5			SB51-03-6			SB51-04-1		SB51A-01-8B		
		Oct-03	Nov-03	Jan-04	Oct-03	Nov-03	Jan-04	Oct-03	Nov-03	Jan-04	Mar-04	Sep-04	22-Jul-02	8-Aug-02	14-Aug-02
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	185.0	<10	<10
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<300	<300
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	93.1	<30	<30
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.4	<10	<10
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	9.2	<10	<10
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	443.0	<10	<10
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.5	29.8	<10	<10
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.6	<10	<10
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Tetrachloroethene	5	<1	<1	<1	<1	1.9	1.3	<1	2.1	1.1	6.6	9.8	328.0	49.1	19.4
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	510.0	<10	<10
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	25.6	<10	<10
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.1	5.3	81,100	175.1	1,071.3
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<30
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<10	<10
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Total Halogenated Hydrocarbons						1.9	1.3		2.1	1.1	10.7	18.6	82,735.7	224.2	1,090.7
Total Concentration of VOCs						1.9	1.3		2.1	1.1	10.7	18.6	82,735.7	224.2	1,090.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51A-01-8B (continued) 20-Aug-02	4-Sep-02	12-Sep-02	24-Sep-02	25-Sep-02	2-Oct-02*	8-Oct-02	15-Oct-02	4-Nov-02	12-Nov-02	21-Nov-02	26-Nov-02
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
n-Butylbenzene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
sec-Butylbenzene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
ter-Butylbenzene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Chlorobenzene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Ethylbenzene	300	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Isopropylbenzene		<20	<20	<20	<2	<2	<0.5	<2	<20	<20	<2	<20	<20
p-Isopropyltoluene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<5	<5	<0.5	<5	<50	<50	<5	<50	<50
Naphthalene		<20	<20	<20	<2	<2	<0.5	<2	<20	<20	<2	<20	<20
n-Propylbenzene		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Toluene	150	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Xylenes, total	1750	<20	<20	<20	<2	<2	<1	<2	<20	<20	<2	<20	<20
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Bromomethane		<100	<100	<100	<10	<10	<1	<10	<100	<100	<10	<100	<100
Carbon Tetrachloride	0.5	<10	<10	<10	9.9	<1	<0.5	<1	<10	<10	<1	<10	<10
Chloroethane		<300	<300	<300	<30	<30	<0.5	<30	<300	<300	<30	<300	<300
Chloroform	100	<30	<30	<30	12.8	<3	<0.5	<3	<30	<30	<3	<30	<30
Chloromethane		<100	<100	<100	<10	<10	<0.5	<10	<100	<100	<10	<100	<100
2-Chlorotoluene		<20	<20	<20	<2	<2	<0.5	<2	<20	<20	<2	<20	<20
1,1-Dichloroethane	5	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
1,2-Dichloroethane	0.5	<10	<10	<10	4.0	<2	<0.5	<2	<20	<20	<2	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	16.2	<1	<0.5	<1	<10	<10	<1	<10	<10
cis-1,2-Dichloroethene	6	<10	<10	<10	4.0	<1	<0.5	<1	<10	<10	<1	<10	<10
trans-1,2-Dichloroethene	10	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Methylene Chloride	5	<10	<10	<10	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<2	<2	<0.5	<2	<20	<20	<2	<20	<20
Tetrachloroethene	5	21.5	35.2	39.8	71.1	1.6	1.8	1.6	<10	<10	2.1	<10	39.5
1,1,1-Trichloroethane	200	<10	<10	<10	35.2	<1	0.80	<1	<10	<10	<1	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	6.1	<1	<0.5	<1	<10	<10	<1	<10	<10
Trichloroethene	5	279.4	822.8	717.2	11,000	142.6	130.0	132.8	584.5	336.9	88.1	576.3	295.0
Freon-11		<20	<20	<20	<2	<2	<0.5	<2	<20	<20	<2	<20	<20
Freon-113	1200	<10	<10	<10	<1	<1	<0.5	<1	<10	<10	<1	<10	<10
Freon-114		<30	<30	<30	<3	<3		<3	<30	<30	<3	<30	<30
Freon-123A		<10	<10	<10	<1	<1		<1	<10	<10	<1	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<1	<1	<0.5	1.1	<10	<10	<1	<10	<10
Total Halogenated Hydrocarbons		300.9	858.0	757.0	11,159.3	144.2	132.6	135.5	584.5	336.9	90.2	576.3	334.5
Total Concentration of VOCs		300.9	858.0	757.0	11,159.3	144.2	132.6	135.5	584.5	336.9	90.2	576.3	334.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51A-01-8B (continued) 5-Dec-02	12-Dec-02	17-Dec-02	3-Jan-03	10-Jan-03	16-Jan-03	23-Jan-03	30-Jan-03	6-Feb-03	12-Feb-03	18-Feb-03	27-Feb-03
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
n-Butylbenzene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
sec-Butylbenzene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
ter-Butylbenzene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chlorobenzene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	300	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Isopropylbenzene		<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
p-Isopropyltoluene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Methyl tert-Butyl Ether	13	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<5
Naphthalene		<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
n-Propylbenzene		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	150	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Xylenes, total	1750	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromomethane		<100	<10	<100	<10	<10	<10	<10	<10	<10	<10	<100	<10
Carbon Tetrachloride	0.5	<10	<1	<10	<1	1.3	<1	<1	2.1	2.7	1.8	<10	1.2
Chloroethane		<300	<30	<300	<30	<30	<30	<30	<30	<30	<30	<300	<30
Chloroform	100	<30	<3	<30	<3	<3	<3	<3	<3	3.1	<3	<30	<3
Chloromethane		<100	<10	<100	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Chlorotoluene		<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	5	<10	<1	<10	<1	<1	<1	<1	<1	1.1	<1	<10	<1
1,2-Dichloroethane	0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethene	6	<10	<1	<10	<1	<1	<1	<1	1.5	1.3	<1	<10	<1
cis-1,2-Dichloroethene	6	<10	<1	<10	2.0	6.1	<1	2.5	9.0	22.5	13.2	11.1	5.3
trans-1,2-Dichloroethene	10	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichloropropane	5	<10	<1	<10	<1	1.6	<1	<1	3.8	2.9	1.7	<10	<1
Methylene Chloride	5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane		<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
Tetrachloroethene	5	<10	1.5	<10	2.1	6.0	1.7	2.7	8.4	6.8	4.5	<10	2.2
1,1,1-Trichloroethane	200	<10	<1	<10	1.1	2.7	<1	1.2	4.6	3.3	2.0	<10	1.2
1,1,2-Trichloroethane	5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Trichloroethene	5	260.8	181.9	164.7	237.0	673.0	115.8	272.7	1,110	910.0	456.0	485.0	211.0
Freon-11		<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<20	<2
Freon-113	1200	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Freon-114		<30	<3	<30	<3	<3	<3	<3	<3	<3	<3	<30	<3
Freon-123A		<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Vinyl Chloride	0.5	<10	1.1	<10	<1	<1	<1	<1	<1	<1	<1	<10	<1
Total Halogenated Hydrocarbons		260.8	184.5	164.7	242.2	690.7	117.5	279.1	1139.4	953.7	479.2	496.1	220.9
Total Concentration of VOCs		260.8	184.5	164.7	242.2	690.7	117.5	279.1	1139.4	953.7	479.2	496.1	220.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51A-01-8B (continued)												
		6-Mar-03	13-Mar-03	20-Mar-03	27-Mar-03	2-Apr-03	8-Apr-03	16-Apr-03	24-Apr-03	30-Apr-03	8-May-03	15-May-03	22-May-03	29-May-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
n-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
sec-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
ter-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chlorobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	300	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Isopropylbenzene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
p-Isopropyltoluene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Methyl tert-Butyl Ether	13	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Naphthalene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
n-Propylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	150	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Xylenes, total	1750	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	7.0	10.7	<1	16.3	<1	3.7	15.7	<1	<1	<1	<10	<1
Bromomethane		<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10
Carbon Tetrachloride	0.5	2.0	1.6	<10	1.4	4.8	<1	2.2	4.1	<1	1.7	3.3	<10	2.0
Chloroethane		<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	<30	<300	<30
Chloroform	100	<3	<3	<30	<3	4.5	<3	<3	3.8	<3	<3	3.0	<30	<3
Chloromethane		<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Chlorotoluene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	5	<1	<1	<10	<1	1.6	<1	<1	1.1	<1	<1	1.1	<10	<1
1,2-Dichloroethane	0.5	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethene	6	1.0	<1	<10	<1	1.4	<1	<1	1.1	<1	<1	1.0	<10	<1
cis-1,2-Dichloroethene	6	12.7	8.0	15.5	5.2	28.2	2.7	9.0	22.4	2.9	10.0	20.0	30.8	11.2
trans-1,2-Dichloroethene	10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichloropropane	5	2.7	2.2	<10	<1	5.5	1.0	1.1	5.0	<1	<1	<1	<10	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
Tetrachloroethene	5	6.6	6.1	<10	3.4	9.8	3.6	4.3	9.8	2.1	7.1	10.7	11.4	4.5
1,1,1-Trichloroethane	200	3.0	2.2	<10	1.2	5.1	<1	1.6	4.5	<1	2.1	3.4	<10	1.4
1,1,2-Trichloroethane	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Trichloroethene	5	620.0	554.0	1,050.0	260.0	1,010	326.0	297.0	945.0	141.0	634.0	911.0	974.0	285.0
Freon-11		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
Freon-113	1200	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Freon-114		<3	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<30	<3
Freon-123A		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Vinyl Chloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Total Halogenated Hydrocarbons		648.0	581.1	1,076.2	271.2	1,087.2	333.3	318.9	1,012.5	146.0	654.9	953.5	1,016.2	304.1
Total Concentration of VOCs		648.0	581.1	1,076.2	271.2	1,087.2	333.3	318.9	1,012.5	146.0	654.9	953.5	1,016.2	304.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51A-01-8B (continued)												
		4-Jun-03	10-Jun-03	17-Jun-03	24-Jun-03	3-Jul-03*	10-Jul-03	17-Jul-03#	Aug-03	Sep-03	Oct-03	Nov-03	Mar-04*	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
n-Butylbenzene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
sec-Butylbenzene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
ter-Butylbenzene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Chlorobenzene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Ethylbenzene	300	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Isopropylbenzene		<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	<0.5	<20
p-Isopropyltoluene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Methyl tert-Butyl Ether	13	<5	<50	<5	<50	<0.5	<50	<50	<50	<50	<50	<50	<0.5	<50
Naphthalene		<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	<0.5	<20
n-Propylbenzene		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Toluene	150	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Xylenes, total	1750	<2	<20	<2	<20	<1	<20	<20	<20	<20	<20	<20	<1	<20
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Bromomethane		<10	<100	<10	<100	<1	<100	<100	<100	<100	<100	<100	7.0	<100
Carbon Tetrachloride	0.5	2.4	<10	6.4	<10	1.4	<10	<10	<10	<10	<10	<10	<0.5	<10
Chloroethane		<30	<300	<30	<300	<0.5	<300	<300	<300	<300	<300	<300	<0.5	<300
Chloroform	100	<3	<30	4.4	<30	1.0	<30	<30	<30	<30	<30	<30	6.9	<30
Chloromethane		<10	<100	<10	<100	<0.5	<100	<100	<100	<100	<100	<100	<0.5	<100
2-Chlorotoluene		<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	<0.5	<20
1,1-Dichloroethane	5	<1	<10	2.3	<10	<0.5	<10	<10	<10	<10	<10	<10	3.6	<10
1,2-Dichloroethane	0.5	<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	1.5	<20
1,1-Dichloroethene	6	<1	<10	2.1	<10	<0.5	<10	<10	<10	<10	<10	<10	1.6	<10
cis-1,2-Dichloroethene	6	16.7	10.6	38.6	32.6	8.2	<10	11.8	23.6	<10	<10	<10	98.0	22.2
trans-1,2-Dichloroethene	10	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	1.9	<10
1,2-Dichloropropane	5	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Methylene Chloride	5	<1	<10	<1	<10	<1	<10	<10	<10	<10	<10	<10	<1	<10
1,1,2,2-Tetrachloroethane	1	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
1,1,1,2-Tetrachloroethane		<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	<0.5	<20
Tetrachloroethene	5	6.4	<10	8.6	<10	4.2	<10	<10	<10	<10	<10	<10	17.0	<10
1,1,1-Trichloroethane	200	1.9	<10	5.2	<10	1.1	<10	<10	<10	<10	<10	<10	6.2	<10
1,1,2-Trichloroethane	5	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	1.1	<10
Trichloroethene	5	694.0	487.0	737.0	704.0	200.0	259.0	316.0	593.0	132.0	190.0	497.0	1,200	215.0
Freon-11		<2	<20	<2	<20	<0.5	<20	<20	<20	<20	<20	<20	<0.5	<20
Freon-113	1200	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10
Freon-114		<3	<30	<3	<30		<30	<30	<30	<30	<30	<30		<30
Freon-123A		<1	<10	<1	<10		<10	<10	<10	<10	<10	<10		<1
Vinyl Chloride	0.5	<1	<10	<1	<10	<0.5	<10	<10	<10	<10	<10	<10	1.4	<10
Total Halogenated Hydrocarbons		721.4	497.6	804.6	736.6	215.9	259.0	327.8	616.6	132.0	190.0	497.0	1,346.2	237.2
Total Concentration of VOCs		721.4	497.6	804.6	736.6	215.9	259.0	327.8	616.6	132.0	190.0	497.0	1,346.2	237.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
#-surrogate recovery outside limits

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51L-98-1A												
		Apr-98	Dec-98	Jun-99	Mar-00	Oct-00	Mar-01	Sep-01	Mar-02	Oct-02	Feb-03	Sep-03	Apr-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<50	<50	<50	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Bromomethane		<4	<4	<4	<4	<4	<40	<100	<100	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<300	<300	<300	<30	<30	<30	<30	<30
Chloroform	100	<1	<1	<1	<1	<3	<30	<30	<30	<3	<3	<3	<3	<3
Chloromethane		<1	<1	<1	<1	<1	<10	<100	<100	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	5.7	10.0	17.7	11.0	20.4	33.4	21.9	29.9	25.6	36.0	32.7	30.4	39.9
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	1.7	1.0	1.8	<10	<10	<10	4.3	4.3	5.1	4.7	7.0
cis-1,2-Dichloroethene	6	23.6	37.7	84.4	34.1	103.2	156.4	126.5	169.2	141.0	235.0	272.0	243.0	214.0
trans-1,2-Dichloroethene	10	6.6	5.6	9.2	5.3	11.0	16.0	10.2	19.2	26.1	30.3	37.1	27.2	47.0
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	1.4	3.0	<1	1.4	<10	<10	<10	1.7	4.9	8.2	5.2	7.5
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Trichloroethene	5	19.5	18.1	32.5	12.1	43.3	64.4	38.6	80.3	66.3	128.0	161.0	97.1	166.0
Freon-11		<2	<2	<2	<2	<2	<20	<20	<20	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<30	<30	<30	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<10	<10	<10	1.1	1.1	<1	<1	<1
Total Halogenated Hydrocarbons		55.4	72.8	148.5	63.5	181.1	270.2	197.2	298.6	266.1	439.6	516.1	407.6	481.4
Total Concentration of VOCs		55.4	72.8	148.5	63.5	181.1	270.2	197.2	298.6	266.1	439.6	516.1	407.6	481.4

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51L-02-3											
		Mar-02	Mar-02	May-02	Sep-02	Feb-03	Sep-03	Sep-03†	9-Dec-03*	16-Dec-03*	17-Dec-03*	19-Dec-03*^	22-Dec-03*
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<10	<10	<10	<1	<10	1.2	1.0	<1	<0.5	<0.5	<30	<30
n-Butylbenzene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
sec-Butylbenzene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
ter-Butylbenzene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Chlorobenzene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Ethylbenzene	300	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Isopropylbenzene		<20	<20	<20	<2	<20	<2	<0.5	<1	<0.5	<0.5	<30	<30
p-Isopropyltoluene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Methyl tert-Butyl Ether	13	<50	<50	<50	<5	<50	<5	<0.5	<1	<0.5	<0.5	<30	<30
Naphthalene		<20	<20	<20	<2	<20	<2	<1	<1	<0.5	<0.5	<30	<30
n-Propylbenzene		<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Toluene	150	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Xylenes, total	1750	<20	<20	<20	<2	<20	<2	<0.5	<2	<1	<1	<50	<50
Total Aromatic Hydrocarbons							1.2	1.0					
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<10	<10	<10	<1	<10	<1	5.6	<1	<0.5	<0.5	<30	<30
Bromomethane		<100	<100	<100	<10	<100	<10	<1	<2	9.2†	3.4†	<50	<50
Carbon Tetrachloride	0.5	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Chloroethane		<300	<300	<300	<30	<300	<30	<0.5	<1	<0.5	<0.5	<30	<30
Chloroform	100	<30	<30	<30	<3	<30	<3	<0.5	<1	1.9	1.8	<30	<30
Chloromethane		<100	<100	<100	<10	<100	<10	<1	<1	10.0	1.7	<30	<30
2-Chlorotoluene		<20	<20	<20	<2	<20	<2	<0.5	<1	<0.5	<0.5	<30	<30
1,1-Dichloroethane	5	40.6	101.4	144.6	229.3	138.0	245.0	220.0	130.0	65.0	73.0	64.0	69.0
1,2-Dichloroethane	0.5	<20	<20	<20	<2	<20	<2	<0.5	<1	<0.5	<0.5	<30	<30
1,1-Dichloroethene	6	<10	17.9	19.7	56.4	23.6	70.9	48.0	21.0	<0.5	2.1	<30	<30
cis-1,2-Dichloroethene	6	156.7	347.7	357.9	706.0	719.0	1,100	1,000	460.0	93.0	120.0	140.0	160.0
trans-1,2-Dichloroethene	10	43.0	85.1	99.6	515.0	81.9	457.0	200.0	90.0	15.0	33.0	38.0	54.0
1,2-Dichloropropane	5	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Methylene Chloride	5	<10	<10	<10	<1	<10	<1	<1	4.5	<1	<1	<50	<50
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<1	<10	<1	<1	<1	<0.5	<0.5	<30	<30
1,1,1,2-Tetrachloroethane		<20	<20	<20	<2	<20	<2	<0.5	<1	<0.5	<0.5	<30	<30
Tetrachloroethene	5	<10	<10	<10	7.9	23.6	35.3	25.0	6.0	16.0	12.0#	<30	<30
1,1,1-Trichloroethane	200	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
1,1,2-Trichloroethane	5	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Trichloroethene	5	80.3	104.9	84.5	164.9	380.0	551.0	510.0	190.0	120.0##	140.0	110.0	150.0
Freon-11		<20	<20	<20	<2	<20	<2	<0.5	<1	<0.5	<0.5	<30	<30
Freon-113	1200	<10	<10	<10	<1	<10	<1	<0.5	<1	<0.5	<0.5	<30	<30
Freon-114		<30	<30	<30	<3	<30	<3						
Freon-123A		<10	<10	<10	<1	<10	<1						
Vinyl Chloride	0.5	<10	<10	11.3	13.5	43.4	132.0	36.0	21.0	2.3	7.8	<30	<30
Total Halogenated Hydrocarbons		320.6	657.0	717.6	1,693.0	1,409.5	2,591.2	2,044.6	922.5	332.4	394.8	352.0	433.0
Total Concentration of VOCs		320.6	657.0	717.6	1,693.0	1,409.5	2,592.4	2,045.6	922.5	332.4	394.8	352.0	433.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Detected in CCB above PQL

- Result outside quantitation range
† - CCV outside limits

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51L-02-3 (continued)							SB51L-03-1				
		Jan-04	Feb-04	Mar-04	Apr-04	Jun-04	Aug-04	Sep-04	May-03	Aug-03*	Sep-03†	8-Dec-03*	16-Dec-03*
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
n-Butylbenzene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
sec-Butylbenzene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
ter-Butylbenzene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Chlorobenzene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Ethylbenzene	300	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Isopropylbenzene		<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<0.5	<3	<0.5
p-Isopropyltoluene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Methyl tert-Butyl Ether	13	<5	<50	<250	<5	<250	<50	<5	<50	<0.5	<0.5	<3	<0.5
Naphthalene		<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<1	<3	<0.5
n-Propylbenzene		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Toluene	150	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Xylenes, total	1750	<2	<20	<100	<2	<100	<20	<2	<20	<1	<0.5	<5	<1
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Bromomethane		<10	<100	<100	<10	<100	<100	<10	<100	<1	13.0	<5	<1
Carbon Tetrachloride	0.5	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Chloroethane		<30	<300	<1500	<30	<1500	<300	<30	<300	3.7	3.8	62.0	28.0
Chloroform	100	<3	<30	<150	<3	<150	<30	<3	<30	<0.5	1.4	<3	<0.5
Chloromethane		<10	<100	<500	<10	<500	<100	<10	<100	<0.5	69.0	<3	<0.5
2-Chlorotoluene		<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<0.5	<3	<0.5
1,1-Dichloroethane	5	114.0	55.8	<50	44.4	51.9	69.5	114.0	92.2	120.0	140.0	63.0	45.0
1,2-Dichloroethane	0.5	<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<0.5	<3	<0.5
1,1-Dichloroethene	6	15.8	19.5	<50	9.2	<50	34.7	33.0	<10	8.9	<0.5	8.6	3.3
cis-1,2-Dichloroethene	6	409.0	587.0	786.0	433.0	856.0	1,220	1,180	174.0	230.0	33.0	300.0	180.0
trans-1,2-Dichloroethene	10	145.0	110.0	118.0	37.4	114.0	176.0	183.0	<10	3.8	1.9	14.0	8.2
1,2-Dichloropropane	5	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Methylene Chloride	5	<1	<10	<50	<1	<50	<10	<1	<10	<1	<1	15.0	<1
1,1,2,2-Tetrachloroethane	1	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<1	<3	<0.5
1,1,1,2-Tetrachloroethane		<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<0.5	<3	<0.5
Tetrachloroethene	5	16.8	88.7	<50	32.2	<50	27.5	6.6	<10	1.5	2.4	<3	5.9#
1,1,1-Trichloroethane	200	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
1,1,2-Trichloroethane	5	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Trichloroethene	5	253.0	486.0	<50	240.0	456.0	541.0	64.0	72.3	32.0	6.4	9.9	48.0
Freon-11		<2	<20	<100	<2	<100	<20	<2	<20	<0.5	<0.5	<3	<0.5
Freon-113	1200	<1	<10	<50	<1	<50	<10	<1	<10	<0.5	<0.5	<3	<0.5
Freon-114		<3	<30	<150	<3	<150	<30	<3	<30				
Freon-123A		<1	<10	<50	<1	<50	<10	<1	<10				
Vinyl Chloride	0.5	61.5	31.6	<50	39.5	<50	55.0	161.0	<10	4.6	0.55	18.0	3.8
Total Halogenated Hydrocarbons		1,015.1	1,378.6	904.0	835.7	1,477.9	2,123.7	1,741.6	338.5	404.5	271.45	490.5	322.2
Total Concentration of VOCs		1,015.1	1,378.6	904.0	835.7	1,477.9	2,123.7	1,741.6	338.5	404.5	271.45	490.5	322.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by Sequoia Analytical
##-surrogate recovery outside control limits

- Detected in CCB above PQL
^ - sample analyzed past holding time

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51L-03-1 (continued)										SB51L-03-2	
		17-Dec-03*	19-Dec-03*^	22-Dec-03*	Jan-04	Feb-04	Mar-04	Apr-04	Jun-04	Aug-04	Sep-04	Jun-03	Aug-03*
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	0.56
n-Butylbenzene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<0.5	<3	<3	<5	<5	<5	<5	<5	<5	<5	<5	<0.5
Naphthalene		<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<1	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons													0.56
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Bromomethane		<1	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<1
Carbon Tetrachloride	0.5	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane		26.0	24.0	25.0	51.8	80.3	142.0	93.6#	98.6	<30	66.4	<30	<0.5
Chloroform	100	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5
Chloromethane		<0.5	<3	<3	<10	<10	<10	<10	<10	<10	<10	<10	<0.5
2-Chlorotoluene		<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethane	5	60.0	44.0	38.0	62.0	95.9	18.9	70.4	147.0	126.0	92.4	63.9	51.0
1,2-Dichloroethane	0.5	<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	6.4	4.3	4.2	10.7	19.3	15.6	17.3	14.5	36.4	2.9	12.7	12.0
cis-1,2-Dichloroethene	6	220.0##	180.0	170.0	367.0	657.0	631.0	643.0	465.0	1,170	78.1	603.0	330.0
trans-1,2-Dichloroethene	10	8.7	6.3	5.9	20.2	43.7	49.8	46.8	78.0	41.2	53.2	469.0	64.0##
1,2-Dichloropropane	5	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
Tetrachloroethene	5	4.0	<3	<3	2.3	1.1	<1	1.4	<1	1.6	<1	17.9	4.1
1,1,1-Trichloroethane	200	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	85.0	48.0	37.0	40.5	11.0	7.3	23.9	10.5	107.0	12.3	390.0	100.0
Freon-11		<0.5	<3	<3	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
Freon-113	1200	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Freon-114					<3	<3	<3	<3	<3	<3	<3	<3	
Freon-123A					<1	<1	<1					<1	
Vinyl Chloride	0.5	2.9	<3	3.4	11.2	27.0	87.7	41.9	467.0	81.6	382.0	13.5	0.98
Total Halogenated Hydrocarbons		413.0	306.6	283.5	565.7	935.3	952.3	938.3	1,280.6	1,563.8	687.3	1,570	562.08
Total Concentration of VOCs		413.0	306.6	283.5	565.7	935.3	952.3	938.3	1,280.6	1,563.8	687.3	1,570	562.64

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
\# - bias high due to high recovery in calibration check
- continuing calibration verification recovery outside limits

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB51L-03-2 (continued)										
		9-Dec-03*	16-Dec-03*	17-Dec-03*	22-Dec-03*	Jan-04	Feb-04	Mar-04	Apr-04	Jun-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
n-Butylbenzene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
sec-Butylbenzene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
ter-Butylbenzene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Chlorobenzene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Ethylbenzene	300	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Isopropylbenzene		<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
p-Isopropyltoluene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Methyl tert-Butyl Ether	13	<5	<0.5	<20	<3	<5	<5	<5	<5	<5	<5	<50
Naphthalene		<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
n-Propylbenzene		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Toluene	150	<5	<0.5	<20	<3	1.6	1.2	<1	<1	<1	<1	<10
Xylenes, total	1750	<10	<1	<30	<5	<2	<2	<2	<2	<2	<2	<20
Total Aromatic Hydrocarbons						1.6	1.2					
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Bromomethane		<10	2.6†	<30	<5	<10	<10	<10	<10	<10	<10	<100
Carbon Tetrachloride	0.5	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Chloroethane		<5	0.65	<20	<3	<30	<30	<30	<30	<30	<30	<300
Chloroform	100	<5	0.86	<20	<3	<3	<3	<3	<3	<3	<3	<30
Chloromethane		<5	3.4	<20	<3	<10	<10	<10	<10	<10	<10	<100
2-Chlorotoluene		<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
1,1-Dichloroethane	5	49.0	9.2	<20	26.0	42.8	35.3	26.1	41.3	67.0	60.6	49.1
1,2-Dichloroethane	0.5	<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
1,1-Dichloroethene	6	11.0	<0.5	<20	<3	13.1	11.0	6.5	18.9	28.4	9.0	<10
cis-1,2-Dichloroethene	6	670.0	<0.5	160.0	220.0	1,050	1,670	755.0	1,450	1,960	601.0	447.0
trans-1,2-Dichloroethene	10	190.0	<0.5	88.0	110.0	299.0	275.0	293.0	321.0	533.0	645.0	279.0
1,2-Dichloropropane	5	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Methylene Chloride	5	19.0	<1	<30	<5	<1	<1	<1	<1	<1	<1	<10
1,1,2,2-Tetrachloroethane	1	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
1,1,1,2-Tetrachloroethane		<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
Tetrachloroethene	5	<5	1.2	<20	6.8	5.1	1.0	1.8	11.3	5.7	<1	<10
1,1,1-Trichloroethane	200	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
1,1,2-Trichloroethane	5	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Trichloroethene	5	150.0	2.0	170.0	360.0	222.0	12.9	40.0	464.0	324.0	10.3	71.6
Freon-11		<5	<0.5	<20	<3	<2	<2	<2	<2	<2	<2	<20
Freon-113	1200	<5	<0.5	<20	<3	<1	<1	<1	<1	<1	<1	<10
Freon-114						<3	<3	<3	<3	<3	<3	<30
Freon-123A						<1	<1	<1				
Vinyl Chloride	0.5	9.4	<0.5	<20	<3	10.9	16.5	145.0	89.0	287.0	1,350	674.0
Total Halogenated Hydrocarbons		1,098.4	19.91	418.0	722.8	1,642.9	2,021.7	1,267.4	2,395.5	3,205.1	2,675.9	1,520.7
Total Concentration of VOCs		1,098.4	19.91	418.0	722.8	1,644.5	2,022.9	1,267.4	2,395.5	3,205.1	2,675.9	1,520.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

<	= Less than Quantitation Limit
	= Compound not included in analysis

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-8 Jun-98	Jun-98	Dec-98	Mar-99	Oct-99	Mar-00	Jul-00	Oct-00	Nov-00	Apr-01	Jun-01	Sep-01	Jan-02
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
n-Butylbenzene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
sec-Butylbenzene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
ter-Butylbenzene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Chlorobenzene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Ethylbenzene	300	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Isopropylbenzene		<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	<200
p-Isopropyltoluene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Methyl tert-Butyl Ether	13	<500	<500	<5000	<2500	<1000	<250	<500	<1250	<500	<1000	<2500	<2500	<500
Naphthalene		<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	<200
n-Propylbenzene		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Toluene	150	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Xylenes, total	1750	<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	<200
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Bromomethane		<400	<400	<4000	<2000	<800	<200	<400	<1000	<400	<800	<5000	<5000	<1000
Carbon Tetrachloride	0.5	<100	<100	<1000	<500	<200	<50	1,564	415.4	470.0	<200	<500	<500	<100
Chloroethane		<3000	<3000	<30000	<15000	<6000	<1500	<3000	<7500	<3000	<6000	<15000	<15000	<3000
Chloroform	100	<100	<100	<1000	<500	<200	<50	<300	<750	<300	<600	<1500	<1500	<300
Chloromethane		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<5000	<500	<1000
2-Chlorotoluene		<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	<200
1,1-Dichloroethane	5	2,910	5,930	5,120	5,810	10,600	4,100	11,969	24,062	19,576	10,076	15,271	13,672	15,752
1,2-Dichloroethane	0.5	<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	272.9
1,1-Dichloroethene	6	962.0	5,060	2,330	1,510	3,780	1,000	2,550	5,345	4,327	1,782	3,053	2,296	2,587
cis-1,2-Dichloroethene	6	<100	<100	<1000	<500	<200	<50	107.0	<250	<100	<200	<500	<500	<100
trans-1,2-Dichloroethene	10	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
1,2-Dichloropropane	5	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Methylene Chloride	5	<100	<100	<1000	<500	<200	<50	110.0	378.1	320.0	<200	<500	<500	<100
1,1,2,2-Tetrachloroethane	1	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
1,1,1,2-Tetrachloroethane		<200	<200	<2000	<1000	< 400	<100	<200	<500	<200	<400	<1000	<1000	<200
Tetrachloroethene	5	375.0	4,650	2,360	839	917.0	506.0	1,025	1,493	1,218	<200	941.6	<500	773.9
1,1,1-Trichloroethane	200	3,010	58,400	23,100	10,600	17,100	4,590	8,397	2,810	3,177	1,085	712.1	<500	391.0
1,1,2-Trichloroethane	5	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Trichloroethene	5	615.0	3,520	1,690	814	1,320	494.0	1,330	3,234	2,327	959.1	2,103	1,304	1,940
Freon-11		<200	<200	<2000	<1000	<400	<100	<200	<500	<200	<400	<1000	<1000	<200
Freon-113	1200	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Freon-114		<300	<300	<3000	<1500	<600	<150	<300	<750	<300	<600	<1500	<1500	<300
Freon-123A		<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	<100
Vinyl Chloride	0.5	<100	<100	<1000	<500	<200	<50	<100	<250	<100	<200	<500	<500	159.7
Total Halogenated Hydrocarbons		7,872	77,560	34,600	19,573	33,717	10,690	27,052	37,737	31,415	13,902	22,080	17,272	21,877
Total Concentration of VOCs		7,872	77,560	34,600	19,573	33,717	10,690	27,052	37,737	31,415	13,902	22,080	17,272	21,877

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-8 (continued) Mar-02	Sep-02	Jan-03	Apr-03	Jul-03	Nov-03	Dec-03	Dec-03*	08-Jan-04	22-Jan-04	05-Feb-04	17-Feb-04	16-Mar-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
n-Butylbenzene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
sec-Butylbenzene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
ter-Butylbenzene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Chlorobenzene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Ethylbenzene	300	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Isopropylbenzene		<200	<1000	<200	<200	<1000	<200	<1000	<0.5	<1000	<200	<200	<1000	<200
p-Isopropyltoluene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Methyl tert-Butyl Ether	13	<500	<2500	<500	<500	<2500	<500	<2500	<0.5	<2500	<500	<500	<2500	<500
Naphthalene		<200	<1000	<200	<200	<1000	<200	<1000	<0.5	<1000	<200	<200	<1000	<200
n-Propylbenzene		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Toluene	150	<100	<500	<100	<100	<500	<100	<500	1.2	<500	<100	<100	<500	<100
Xylenes, total	1750	<200	<1000	<200	<200	<1000	<200	<1000	<1	<1000	<200	<200	<1000	<200
Total Aromatic Hydrocarbons									1.2					
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Bromomethane		<1000	<5000	<1000	<1000	<5000	<1000	<5000	<1	<5000	<1000	<1000	<5000	<1000
Carbon Tetrachloride	0.5	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Chloroethane		<3000	<15000	<3000	<3000	<15000	<3000	<15000	3.1	<15000	<3000	<3000	<15000	<3000
Chloroform	100	<300	<1500	<300	<300	<1500	<300	<1500	<0.5	<1500	<300	<300	<1500	<300
Chloromethane		<1000	<500	<1000	<1000	<5000	<1000	<500	<0.5	<500	<1000	<1000	<5000	<1000
2-Chlorotoluene		<200	<1000	<200	<200	<1000	<200	<1000	<0.5	<1000	<200	<200	<1000	<200
1,1-Dichloroethane	5	15,601	10,861	9,527	10,600	15,800	6,190	8,780	8,200	9,460	12,200	12,400	12,400	8,690
1,2-Dichloroethane	0.5	<200	<1000	<200	<200	<1000	<200	<1000	60.0	<1000	<200	<200	<1000	<200
1,1-Dichloroethene	6	2,943	1,862	1,414	1,640	2,210	782.0	1,580	1,300	1,930	2,010	2,310	2,390	1,760
cis-1,2-Dichloroethene	6	<100	<500	<100	<100	<500	<100	<500	83.0	<500	112.0	116.0	<500	<100
trans-1,2-Dichloroethene	10	<100	<500	<100	<100	<500	<100	<500	1.7	<500	<100	<100	<500	<100
1,2-Dichloropropane	5	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Methylene Chloride	5	<100	<500	<100	<100	<500	<100	<500	3.4	<500	<100	<100	<500	<100
1,1,2,2-Tetrachloroethane	1	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
1,1,1,2-Tetrachloroethane		<200	<1000	<200	<200	<1000	<200	<100	<0.5	<100	<200	<200	<100	<200
Tetrachloroethene	5	307.4	<500	229.1	524.0	692.0	232.0	<500	350.0	<500	801.0	686.0	813.0	771.0
1,1,1-Trichloroethane	200	199.2	<500	124.3	222.0	<500	110.0	<500	110.0	<500	231.0	288.0	<500	171.0
1,1,2-Trichloroethane	5	<100	<500	<100	<100	<500	<100	<500	11.0	<500	<100	<100	<500	<100
Trichloroethene	5	1,345	1,102	836.7	1,170	1,590	547.0	1,280	950.0	1,500	1,850	1,710	1,990	1,610
Freon-11		<200	<1000	<200	<200	<1000	<200	<100	<0.5	<100	<200	<200	<100	<200
Freon-113	1200	<100	<500	<100	<100	<500	<100	<500	<0.5	<500	<100	<100	<500	<100
Freon-114		<300	<1500	<300	<300	<1500	<300	<150		<150	<300	<300	<150	<300
Freon-123A		<100	<500	<100	<100	<500	<100	<500						
Vinyl Chloride	0.5	345.9	<500	343.9	247.0	<500	334.0	<500	22.0	<500	<100	<100	<500	<100
Total Halogenated Hydrocarbons		20,741	13,824	12,475	14,403	20,292	8,195	11,640	11,094.2	12,890	17,204	17,510	17,593	13,002
Total Concentration of VOCs		20,741	13,824	12,475	14,403	20,292	8,195	11,640	11,095.4	12,890	17,204	17,510	17,593	13,002

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-8 (continued)						SB64-98-12						
		Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	May-98*	Jun-98	Dec-98	Mar-99	Oct-99	Mar-00	Oct-00
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
n-Butylbenzene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
sec-Butylbenzene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
ter-Butylbenzene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Chlorobenzene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Ethylbenzene	300	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Isopropylbenzene		<200	<200	<200	<200	<1000	<200	<0.5	<2	<2	<2	<20	<2000	<20
p-Isopropyltoluene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Methyl tert-Butyl Ether	13	<500	<500	<500	<500	<2500	<500		<5	<5	<5	<50	<5000	<50
Naphthalene		<200	<200	<200	<200	<1000	<200	<0.5	<2	<2	<2	<20	<2000	<20
n-Propylbenzene		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Toluene	150	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Xylenes, total	1750	<200	<200	<200	<200	<1000	<200	<1	<2	<2	<2	<20	<2000	<20
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Bromomethane		<1000	<1000	<1000	<1000	<5000	<1000	<0.5	<4	<4	<4	<40	<4000	<40
Carbon Tetrachloride	0.5	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	12.3
Chloroethane		<3000	<3000	<3000	<3000	<15000	<3000	2.4	<30	<30	<30	<300	<30000	<300
Chloroform	100	<300	<300	<300	<300	<1500	<300	<0.5	<1	<1	<1	<10	<1000	<30
Chloromethane		<1000	<1000	<1000	<1000	<1000	<1000	<0.5	<1	<1	<1	<10	<1000	<10
2-Chlorotoluene		<200	<200	<200	<200	<1000	<200	<0.5	<2	<2	<2	<20	<2000	<20
1,1-Dichloroethane	5	7,170	4,770	4,350	2,970	2,820	2,280	190.0	167.0	359.0	530.0	430.0	8,270	478.8
1,2-Dichloroethane	0.5	<200	<200	<200	<200	<1000	<200	0.97	<2	2.2	2.4	<20	<2000	<20
1,1-Dichloroethene	6	1,350	919.0	834.0	727.0	<500	371.0	25.0	31.2	52.4	116.0	50.8	4,380	62.1
cis-1,2-Dichloroethene	6	<100	<100	<100	<100	<500	<100	4.9	4.1	3.6	3.9	<10	<1000	<10
trans-1,2-Dichloroethene	10	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
1,2-Dichloropropane	5	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Methylene Chloride	5	<100	<100	<100	<100	<500	<100	<1	<1	<1	1.3	<10	<1000	<10
1,1,2,2-Tetrachloroethane	1	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
1,1,1,2-Tetrachloroethane		<200	<200	<200	<200	<1000	<200	<0.5	<2	<2	<2	<20	<2000	<20
Tetrachloroethene	5	826.0	548.0	612.0	441.0	<500	304.0	8.7	7.0	12.8	17.6	12.8	11,500	18.0
1,1,1-Trichloroethane	200	113.0	<100	<100	<100	<500	<100	3.0	3.8	30.2	118.0	14.5	115,000	85.3
1,1,2-Trichloroethane	5	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Trichloroethene	5	1,490	1,010	1,050	759.0	<500	527.0	21.0	19.8	28.9	69.5	42.7	6,310	54.0
Freon-11		<200	<200	<200	<200	<1000	<200	<0.5	<2	<2	<2	<20	<2000	<20
Freon-113	1200	<100	<100	<100	<100	<500	<100	<0.5	<1	<1	<1	<10	<1000	<10
Freon-114		<300	<300	<300	<300	<1500	<300		<3	<3	<3	<30	<3000	<30
Freon-123A									<1	<1	<1	<10	<1000	<10
Vinyl Chloride	0.5	<100	<100	<100	<100	<500	<100	22.0	36.2	24.4	4.8	66.8	<1000	36.6
Total Halogenated Hydrocarbons		10,949	7,247	6,846	4,897	2,820	3,482	277.97	269.1	513.5	863.5	617.6	145,460	747.1
Total Concentration of VOCs		10,949	7,247	6,846	4,897	2,820	3,482	277.97	269.1	513.5	863.5	617.6	145,460	747.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-12 (continued) Apr-01 #	Sep-01	Mar-02	Oct-02*	Feb-03	Sep-03	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<4	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	6.3	2.3	1.9	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<1	<1	<1	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	243.0	148.0	143.2	76.0	125.0	64.7	106.0	81.1	146.0	126.0	77.8	208.0	139.0
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	56.8	34.0	38.7	20.0	28.0	18.1	20.6	18.7	18.4	23.7	34.8	26.8	19.3
cis-1,2-Dichloroethene	6	8.1	4.2	5.6	3.6	4.9	4.9	5.8	6.6	6.8	8.0	8.0	7.6	8.3
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	8.3	3.5	5.4	3.6	3.9	<1	8.2	6.9	8.4	13.8	74.5	28.2	13.7
1,1,1-Trichloroethane	200	47.8	15.3	13.5	3.7	4.8	<1	1.5	<1	1.4	1.4	1.9	1.8	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	44.3	21.3	37.7	19.0	31.3	21.5	30.6	45.6	45.3	56.1	75.1	58.1	44.6
Freon-11		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1		<1	<1							
Vinyl Chloride	0.5	5.7	6.6	2.1	3.0	1.8	3.2	<1	<1	<1	2.6	<1	<1	<1
Total Halogenated Hydrocarbons		420.3	235.2	248.1	128.9	199.7	112.4	172.7	158.9	226.3	231.6	272.1	330.5	224.9
Total Concentration of VOCs		420.3	235.2	248.1	128.9	199.7	112.4	172.7	158.9	226.3	231.6	272.1	330.5	224.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Analyzed after holding time expired

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-13 May-98*	Jun-98	Dec-98	Mar-99	Oct-99	Mar-00	Oct-00	Apr-01 #	Sep-01	Mar-02	Oct-02*	Mar-03	Sep-03	Mar-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Chlorobenzene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Methyl tert-Butyl Ether	13		<5	<50	<5	<500	<50	<5	<5	<5	<5	<0.5	<5	<5	<5
Naphthalene		<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<30	<2	<20	<2	<200	<20	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Bromomethane		<10	<4	<40	<4	<400	<40	<4	<4	<10	<10	<1	<10	<10	<10
Carbon Tetrachloride	0.5	<10	<1	<10	<1	<100	<10	5.5	1.0	1.9	3.4	<0.5	<1	<1	<1
Chloroethane		<10	<30	<300	<30	<3000	<300	<30	<30	<30	<30	<0.5	<30	<30	<30
Chloroform	100	<10	<1	<10	<1	<100	<10	<3	<3	<3	<3	<0.5	<3	<3	<3
Chloromethane		<10	<1	<10	<1	<100	<10	<1	1.4	<10	<10	<0.5	<10	<10	<10
2-Chlorotoluene		<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethane	5	120.0	96.6	221.0	965.0	372.0	412.0	105.6	54.3	65.0	69.5	43.0	82.4	43.1	36.7
1,2-Dichloroethane	0.5	<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	33.0	35.5	103.0	527.0	<100	89.0	12.8	10.4	8.9	10.5	5.9	10.5	5.1	6.0
cis-1,2-Dichloroethene	6	<10	<1	<10	1.5	<100	<10	<1	<1	<1	<1	0.65	1.1	<1	<1
trans-1,2-Dichloroethene	10	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloropropane	5	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<30	<1	<10	4.9	<100	<10	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	<10	<1	21.8	174.0	<100	12.5	1.8	<1	1.1	1.4	<0.5	1.1	<1	<1
1,1,1-Trichloroethane	200	1,000	402.0	1,640	10,500	723.0	135.0	35.1	7.0	12.6	24.6	14.0	24.0	8.7	3.9
1,1,2-Trichloroethane	5	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	13.0	4.9	32.8	222.0	<100	26.1	13.4	8.4	14.9	25.8	9.6	24.0	15.5	13.4
Freon-11		<10	<2	<20	<2	<200	<20	<2	<2	<2	<2	<0.5	<2	<2	<2
Freon-113	1200	<10	<1	<10	<1	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-114			<3	<30	<3	<300	<30	<3	<3	<3	<3		<3	<3	<3
Freon-123A			<1	<10	<1	<100	<10	<1	<1	<1	<1		<1	<1	
Vinyl Chloride	0.5	<10	<1	<10	4.4	<100	<10	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		1,166	539.0	2018.6	12,399	1,095.0	674.6	174.2	82.5	104.4	135.2	73.15	143.1	72.4	60.0
Total Concentration of VOCs		1,166	539.0	2018.6	12,399	1,095.0	674.6	174.2	82.5	104.4	135.2	73.15	143.1	72.4	60.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Analyzed after holding time expired

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-13 (continued)		SB64-98-17											
		Jun-04	Sep-04	Dec-98*	Jan-99*	Oct-99	Mar-00	Jul-00	Nov-00	Apr-01 #	Jun-01	Sep-01	Sep-02	Jan-03	Apr-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	6.7	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
n-Butylbenzene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
sec-Butylbenzene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
ter-Butylbenzene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Chlorobenzene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Ethylbenzene	300	<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Isopropylbenzene		<2	<2	<0.5	<200	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
p-Isopropyltoluene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<200	<500	<50	<1000	<500	<500	<500	<500	<500	<50	<500
Naphthalene		<2	<2	<0.5	<200	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
n-Propylbenzene		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Toluene	150	<1	<1	0.89	<200	131.0	19.9	<200	<100	<100	<100	<100	<100	<10	<100
Xylenes, total	1750	<2	<2	<1	<300	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
Total Aromatic Hydrocarbons				7.59		131.0	19.9								
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Bromomethane		<10	<10	<0.5	<200	<400	<40	<800	<400	<400	<1000	<1000	<1000	<100	<1000
Carbon Tetrachloride	0.5	<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Chloroethane		<30	<30	5.2	<200	<3000	<300	<6000	<3000	<3000	<3000	<3000	<3000	<300	<3000
Chloroform	100	<3	<3	<0.5	<200	<100	<10	<600	<300	<300	<300	<300	<300	<30	<300
Chloromethane		<10	<10	<0.5	<200	<100	<10	<200	<100	207.3	<1000	<100	<100	<100	<100
2-Chlorotoluene		<2	<2	<0.5	<200	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
1,1-Dichloroethane	5	46.6	47.1	8000	7200	14,100	6,130	11,660	11,752	7,006	5,524	5,231.8	1,835.3	1,270	2,360
1,2-Dichloroethane	0.5	<2	<2	67.0	<200	<200	81.8	<400	<200	<200	<200	<200	<100	<20	<200
1,1-Dichloroethene	6	7.5	6.0	710.0	970.0	1,740	1,070	1,659	1,149	797.1	382.7	335.7	134.8	95.7	<100
cis-1,2-Dichloroethene	6	<1	<1	4.1	<200	<100	15.0	<200	<100	<100	<100	<100	<100	36.3	<100
trans-1,2-Dichloroethene	10	<1	<1	0.54	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
1,2-Dichloropropane	5	<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Methylene Chloride	5	<1	<1	350.0	480.0	<100	13.8	<200	<100	<100	<100	<100	<100	<10	<100
1,1,2,2-Tetrachloroethane	1	<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
1,1,1,2-Tetrachloroethane		<2	<2	<0.5	<200	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
Tetrachloroethene	5	1.0	<1	6.3	<200	<100	55.1	<200	<100	<100	<100	<100	<100	<10	<100
1,1,1-Trichloroethane	200	6.1	4.8	2.1	<200	<100	10.2	<200	<100	<100	<100	<100	<100	<10	<100
1,1,2-Trichloroethane	5	<1	<1	10.0	<200	<100	13.2	<200	<100	<100	<100	<100	<100	<10	<100
Trichloroethene	5	23.2	22.8	310.0	420.0	634.0	499.0	804.0	456.4	312.6	242.8	180.3	<100	18.6	<100
Freon-11		<2	<2	<0.5	<200	<200	<20	<400	<200	<200	<200	<200	<200	<20	<200
Freon-113	1200	<1	<1	<0.5	<200	<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Freon-114		<3	<3			<300	<30	<600	<300	<300	<300	<300	<300	<30	<300
Freon-123A						<100	<10	<200	<100	<100	<100	<100	<100	<10	<100
Vinyl Chloride	0.5	<1	<1	12.0	<200	<100	36.5	<200	<100	<100	<100	<100	<100	26.0	<100
Total Halogenated Hydrocarbons		84.4	80.7	9477.24	9,070	16,474	7,924.6	14,123	13,358	8,323	6,149	5,747.8	1,970.1	1,446.6	2,360.0
Total Concentration of VOCs		84.4	80.7	9484.83	9,070	16,605	7,944.5	14,123	13,358	8,323	6,149	5,747.8	1,970.1	1,446.6	2,360.0

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Analyzed after holding time expired

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-98-17 (continued) Jul-03	Nov-03	Dec-03	Dec-03*	09-Jan-04	22-Jan-04	05-Feb-04	17-Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
n-Butylbenzene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
sec-Butylbenzene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
ter-Butylbenzene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Chlorobenzene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Ethylbenzene	300	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Isopropylbenzene		<100	<100	<100	<0.5	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
p-Isopropyltoluene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Methyl tert-Butyl Ether	13	<250	<250	<250	<0.5	<500	<50	<250	<250	<250	<5	<50	<50	<50	<50	<5
Naphthalene		<100	<100	<100	<0.5	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
n-Propylbenzene		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Toluene	150	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Xylenes, total	1750	<100	<100	<100	<1	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Bromomethane		<500	<100	<100	<1	<1000	<100	<100	<100	<100	<10	<100	<100	<100	<100	<10
Carbon Tetrachloride	0.5	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Chloroethane		<1500	<1500	<1500	2.8	<3000	<300	<1500	<1500	<1500	<30	<300	<300	<300	<300	<30
Chloroform	100	<150	<150	<150	<0.5	<300	<30	<150	<150	<150	<3	<30	<30	<30	<30	<3
Chloromethane		<500	<500	<500	<0.5	<1000	<100	<500	<500	<500	<10	<100	<100	<100	<100	<10
2-Chlorotoluene		<100	<100	<100	<0.5	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
1,1-Dichloroethane	5	4,340	2,890	2,230	1,800	1,480	1,380	1,110	906.0	820.0	820.0	751.0	653.0	462.0	572.0	763.0
1,2-Dichloroethane	0.5	<100	<100	<100	9.9	<200	<20	<100	<100	<100	3.6	<20	<20	<20	<20	3.0
1,1-Dichloroethene	6	145.0	175.0	172.0	120.0	104.0	81.9	66.0	57.2	<50	49.7	61.0	45.4	48.4	56.0	47.8
cis-1,2-Dichloroethene	6	<50	<50	<50	6.4	<100	<10	<50	<50	<50	2.6	<10	<10	<10	<10	5.6
trans-1,2-Dichloroethene	10	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
1,2-Dichloropropane	5	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Methylene Chloride	5	<50	<50	<50	1.7	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
1,1,2,2-Tetrachloroethane	1	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
1,1,1,2-Tetrachloroethane		<100	<100	<100	<0.5	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
Tetrachloroethene	5	<50	<50	<50	5.6#	<100	<10	<50	<50	<50	3.8	<10	<10	<10	<10	<1
1,1,1-Trichloroethane	200	<50	<50	<50	0.98	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
1,1,2-Trichloroethane	5	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Trichloroethene	5	104.0	65.3	60.8	56.0	<100	36.0	<50	<50	<50	22.9	23.0	23.9	17.9	19.0	17.3
Freon-11		<100	<100	<100	<0.5	<200	<20	<100	<100	<100	<2	<20	<20	<20	<20	<2
Freon-113	1200	<50	<50	<50	<0.5	<100	<10	<50	<50	<50	<1	<10	<10	<10	<10	<1
Freon-114		<150	<150	<150		<300	<30	<150	<150	<150	<3	<30	<30	<30	<30	<3
Freon-123A		<50														
Vinyl Chloride	0.5	<50	<50	<50	2.2	<100	11.9	<50	<50	<50	14.4	34.4	22.2	22.6	18.0	19.2
Total Halogenated Hydrocarbons		4,589.0	3,130.3	2,462.8	2,005.58	1,584.0	1,509.8	1,176.0	963.2	820.0	917.0	869.4	744.5	550.9	665.0	855.9
Total Concentration of VOCs		4,589.0	3,130.3	2,462.8	2,005.58	1,584.0	1,509.8	1,176.0	963.2	820.0	917.0	869.4	744.5	550.9	665.0	855.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Detected in CCB above PQL

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-99-4 May-99	Jun-99	Jul-00	Jun-01	Sep-01	Mar-02	Sep-02	Jan-03	Jul-03##	Nov-03	Dec-03	Dec-03*	09-Jan-04	22-Jan-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
n-Butylbenzene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
sec-Butylbenzene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
ter-Butylbenzene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Chlorobenzene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Ethylbenzene	300	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<30	<0.5	<50	<50
Isopropylbenzene		<2	<2	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<0.5	<100	<100
p-Isopropyltoluene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Methyl tert-Butyl Ether	13	<5	<5	<500	<2500	<500	<500	<50	<50	<5	<250	<50	<0.5	<250	<250
Naphthalene		<2	<2	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<0.5	<100	<100
n-Propylbenzene		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Toluene	150	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Xylenes, total	1750	<2	<2	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<1	<100	<100
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Bromomethane		<4	<4	<400	<5000	<1000	<1000	<100	<100	<10	<100	<100	<1	<100	<100
Carbon Tetrachloride	0.5	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Chloroethane		<30	<30	<3000	<15000	<3000	<3000	<300	<300	<30	<1500	<300	2.9	<1500	<1500
Chloroform	100	<1	<1	<300	<1500	<300	<300	<30	<30	<3	<150	<30	<0.5	<150	<150
Chloromethane		<1	<1	<100	<5000	<1000	<1000	<100	<100	<10	<500	<100	<0.5	<500	<500
2-Chlorotoluene		<2	<2	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<0.5	<100	<100
1,1-Dichloroethane	5	saturated	9,830	15,244	7,427	6,508	4,711	1,605	1,590	55.0	438.0	2,420	2,300	2,770	3,930
1,2-Dichloroethane	0.5	59.1	113.0	<200	<1000	<200	<200	<10	<20	<2	<100	<20	16.0	<100	<100
1,1-Dichloroethene	6	saturated	1,440	2,538	<500	453.0	325.5	43.0	100.6	10.6	66.3	257.0	200.0	221.0	279.0
cis-1,2-Dichloroethene	6	8.9	26.8	<100	<500	<100	<100	<10	11.7	<1	<50	23.0	25.0	<50	<50
trans-1,2-Dichloroethene	10	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	0.64	<50	<50
1,2-Dichloropropane	5	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Methylene Chloride	5	159.0	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	3.1	<50	<50
1,1,2,2-Tetrachloroethane	1	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
1,1,1,2-Tetrachloroethane		<2	14.4	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<0.5	<100	<100
Tetrachloroethene	5	93.0	265.0	231.0	<500	<100	<100	<10	<10	1.5	<50	19.7	19.0#	<50	<50
1,1,1-Trichloroethane	200	180.0	642.0	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
1,1,2-Trichloroethane	5	8.6	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	0.81	<50	<50
Trichloroethene	5	saturated	788.0	1,044	<500	227.2	163.8	25.8	39.9	5.8	<50	113.0	120.0	89.5	155.0
Freon-11		<2	<2	<200	<1000	<200	<200	<20	<20	<2	<100	<20	<0.5	<100	<100
Freon-113	1200	<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10	<0.5	<50	<50
Freon-114		<3	<3	<300	<1500	<300	<300	<30	<30	<3	<150	<30		<150	<150
Freon-123A		<1	<1	<100	<500	<100	<100	<10	<10	<1	<50	<10		<50	<50
Vinyl Chloride	0.5	9.9	33.2	<100	<500	<100	<100	35.4	83.3	<1	<50	344.0	66.0	<50	<50
Total Halogenated Hydrocarbons		518.5	13,152.4	19,057	7,427	7,188.2	5,200.3	1708.9	1,825.5	72.9	504.3	3,176.7	2,753.45	3,080.5	4,364.0
Total Concentration of VOCs		518.5	13,152.4	19,057	7,427	7,188.2	5,200.3	1708.9	1,825.5	72.9	504.3	3,176.7	2,753.45	3,080.5	4,364.0

* = Analysis by BC Laboratories

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

\# - Detected in CCB above PQL

##-surrogate recovery outside limits

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-99-4 (continued)									SB64-99-5				
		05-Feb-04	17-Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Jun-99	Jul-00	Jun-01	Sep-01	Mar-02
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
n-Butylbenzene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
sec-Butylbenzene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
ter-Butylbenzene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Chlorobenzene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Ethylbenzene	300	<30	<30	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Isopropylbenzene		<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
p-Isopropyltoluene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<5	<500	<250	<250	<250	<500	<500	<5	<5	<50	<50	<50
Naphthalene		<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
n-Propylbenzene		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Toluene	150	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Xylenes, total	1750	<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Bromomethane		<100	<100	<10	<1000	<100	<100	<100	<1000	<1000	<4	<4	<100	<100	<100
Carbon Tetrachloride	0.5	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Chloroethane		<300	<300	<30	<3000	<1500	<1500	<1500	<3000	<3000	<30	<30	<300	<300	<300
Chloroform	100	<30	<30	<3	<300	<150	<150	<150	<300	<300	<1	<3	<30	<30	<30
Chloromethane		<100	<100	<10	<1000	<500	<500	<500	<1000	<1000	<1	<1	<100	<10	<10
2-Chlorotoluene		<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
1,1-Dichloroethane	5	4,600	4,510	4,100	3,550	3,920	2,640	4,030	2,390	2,140	55.8	133.8	119.6	159.9	143.1
1,2-Dichloroethane	0.5	31.4	34.7	25.4	<200	<100	<100	<100	<200	<200	<2	<2	55.1	<20	<20
1,1-Dichloroethene	6	387.0	400.0	287.0	218.0	260.0	197.0	347.0	295.0	<100	34.2	46.5	40.2	43.4	45.4
cis-1,2-Dichloroethene	6	30.3	30.2	30.4	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
trans-1,2-Dichloroethene	10	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Methylene Chloride	5	<10	<10	3.3	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
Tetrachloroethene	5	27.6	24.6	35.5	<100	<50	<50	71.1	<100	<100	<1	2.0	<10	<10	<10
1,1,1-Trichloroethane	200	<10	<10	<1	<100	<50	<50	<50	<100	<100	1.1	1.6	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Trichloroethene	5	200.0	200.0	206.0	200.0	186.0	126.0	277.0	121.0	<100	3.5	10.0	19.1	13.8	12.1
Freon-11		<20	<20	<2	<200	<100	<100	<100	<200	<200	<2	<2	<20	<20	<20
Freon-113	1200	<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Freon-114		<30	<30	<3	<300	<150	<150	<150	<300	<300	<3	<3	<30	<30	<30
Freon-123A		<10	<10	<1	<100	<50	<50	<50	<100	<100	<1	<1	<10	<10	<10
Vinyl Chloride	0.5	19.3	18.2	9.9	<100	67.8	<50	209.0	<100	<100	<1	<1	<10	<10	<10
Total Halogenated Hydrocarbons		5,295.6	5,217.7	4,697.5	3,968.0	4,433.8	2,963.0	4,934.1	2,806	2,140.0	94.6	193.9	234.0	217.1	200.6
Total Concentration of VOCs		5,295.6	5,217.7	4,697.5	3,968.0	4,433.8	2,963.0	4,934.1	2,806	2,140.0	94.6	193.9	234.0	217.1	200.6

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-99-5 (cont'd) Sep-02	Jan-03	Apr-03	Jul-03	Nov-03	Dec-03	Dec-03*	09-Jan-04	22-Jan-04	05-Feb-04	17-Feb-04	Mar-04	Apr-04	May-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<50	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromochloromethane		<10	<1	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<100	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<300	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<30	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	162.9	112.4	130.0	161.0**	173.0	207.0	230.0	123.0	359.0	287.0	356.0	139.0	147.0	191.0
1,2-Dichloroethane	0.5	<20	<2	<2	<2	<2	2.1	2.4	<2	4.2	2.4	3.0	<2	<2	<2
1,1-Dichloroethene	6	49.2	34.8	30.9	35.2	65.3	75.2	81.0	32.4	125.0	87.8	99.6	35.6	37.1	83.5
cis-1,2-Dichloroethene	6	<10	<1	<1	<1	<1	<1	0.70	<1	1.1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<10	5.0	4.3	4.0	5.4	7.7	11.0#	2.0	13.3	8.6	12.9	4.0	4.8	10.8
1,1,1-Trichloroethane	200	<10	<1	<1	<1	<1	1.1	1.5	<1	1.8	1.2	1.6	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	15.3	10.4	12.9	15.8	22.6	27.6	39.0	12.0	47.9	32.4	43.1	15.9	16.1	28.6
Freon-11		<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-114		<30	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3
Freon-123A		<10	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		227.4	162.6	178.1	216.0	266.3	320.7	365.6	169.4	552.3	419.4	516.2	194.5	205.0	313.9
Total Concentration of VOCs		227.4	162.6	178.1	216.0	266.3	320.7	365.6	169.4	552.3	419.4	516.2	194.5	205.0	313.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Detected in CCB above PQL

**-estimated value

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-99-5 (cont'd)				SB64-99-6									
		Jun-04	Jul-04	Aug-04	Sep-04	Jul-99	Jul-00	Feb-03	Apr-03	Sep-03	Nov-03	Dec-03	Dec-03*	09-Jan-04	22-Jan-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromochloromethane		<1	<1	<1	<1	<2	<2	<2	<2	<2	<1	<1	<0.5	<1	<1
Bromomethane		<10	<10	<10	<10	<4	<4	<10	<10	<10	<10	<10	<1	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<3	<3	<3	<3	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Chloromethane		<10	<10	<10	<10	<1	<1	<10	<10	<10	<10	<10	<0.5	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethane	5	128.0	143.0	156.0	155.0	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	28.7	84.2	43.8	34.4	1.0	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	3.9	4.1	4.8	2.9	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	14.4	13.0	17.0	12.0	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		175.0	244.3	221.6	204.3	1.0									
Total Concentration of VOCs		175.0	244.3	221.6	204.3	1.0									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-99-6 (cont'd)									SB64-00-1			
		05-Feb-04	17-Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Dec-00	(D)*	Mar-01	(D)*
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<0.5	<2	<0.5
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<0.5	<5	<0.5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<0.5	<2	<0.5
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	5.0	<0.5
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	1.3	1.2	1.1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<1	<2	<1
Total Aromatic Hydrocarbons												1.3	6.2	1.1
Halogenated Non-Aromatic Hydrocarbons														
Bromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<0.5	<2	0.76
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<400	<1	<4	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	4.1	<0.5
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<3000	3.6	<30	4.2
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<300	<0.5	<3	<0.5
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<0.5	<1	<0.5
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<0.5	6.2	<0.5
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	1.1	<1	<1	7,520	3,700	10,448	7,700
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	42.0	75.3	54.0
1,1-Dichloroethene	6	<1	1.9	1.1	1.4	2.3	2.4	7.4	<1	<1	809.4	320.0	1,607	1,200
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	18.0	29.4	28.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	198.4	140.0	202.7	120.0
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	5.2	<0.5
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<0.5	<2	<0.5
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	172.8	90.0	178.6	150.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	44.0	26.6	32.0
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	6.4	6.8	7.7
Trichloroethene	5	<1	<1	1.8	1.1	1.5	1.8	4.8	2.3	1.4	513.0	180.0	728.6	480.0
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<200	<0.5	<2	<0.5
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<0.5	156.5	<0.5
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<300		<3	
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<100		<1	
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	9.4	23.6	17.0
Total Halogenated Hydrocarbons			1.9	2.9	2.5	3.8	4.2	13.3	2.3	1.4	9,214	4,587.4	13,498.4	9,793.7
Total Concentration of VOCs			1.9	2.9	2.5	3.8	4.2	13.3	2.3	1.4	9,214	4,588.7	13,504.6	9,794.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-00-1 (continued) Jun-01	Sep-01	(D)*	Mar-02	Sep-02	Jan-03	Apr-03	Jul-03	Nov-03	Dec-03	Dec-03*	07-Jan-04	22-Jan-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
n-Butylbenzene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
sec-Butylbenzene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
ter-Butylbenzene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Chlorobenzene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Ethylbenzene	300	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Isopropylbenzene		<200	<200	<0.5	<200	<200	<200	<100	<200	<200	<200	<0.5	<200	<200
p-Isopropyltoluene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Methyl tert-Butyl Ether	13	<500	<500	<0.5	<500	<500	<500	<250	<500	<500	<500	<0.5	<500	<500
Naphthalene		<200	<200	<0.5	<200	<200	<200	<100	<200	<200	<200	<0.5	<200	<200
n-Propylbenzene		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Toluene	150	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	0.56	<100	<100
Xylenes, total	1750	<200	<200	<1	<200	<200	<200	<100	<200	<200	<200	<1	<200	<200
Total Aromatic Hydrocarbons												0.56		
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Bromomethane		<1000	<1000	<1	<1000	<1000	<1000	<500	<1000	<1000	<1000	<1	<1000	<1000
Carbon Tetrachloride	0.5	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Chloroethane		<3000	<3000	<0.5	<3000	<3000	<3000	<1500	<3000	<3000	<3000	1.3	<3000	<3000
Chloroform	100	<300	<300	<0.5	<300	<300	<300	<150	<300	<300	<300	<0.5	<300	<300
Chloromethane		<1000	<100	<0.5	<1000	<1000	<1000	<500	<1000	<1000	<1000	<0.5	<1000	<1000
2-Chlorotoluene		<200	<200	<0.5	<200	<200	<200	<100	<200	<200	<200	<0.5	<200	<200
1,1-Dichloroethane	5	4,682	5,875	<0.5	3,447	2,456	2,972	6,940	6,170	4,590	7,400	5,800	7,070	6,810
1,2-Dichloroethane	0.5	<200	<200	32.0	<200	<200	<200	<100	<200	<200	<200	41.0	<200	<200
1,1-Dichloroethene	6	523.3	717.7	220.0	456.8	240.7	294.7	710.0	443.0	504.0	1,100	660.0	803.0	652.0
cis-1,2-Dichloroethene	6	<100	<100	15.0	<100	<100	<100	<50	<100	<100	<100	52.0	<100	<100
trans-1,2-Dichloroethene	10	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	1.2	<100	<100
1,2-Dichloropropane	5	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Methylene Chloride	5	441.9	<100	110.0	<100	<100	<100	<50	<100	<100	<100	1.7	<100	<100
1,1,2,2-Tetrachloroethane	1	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
1,1,1,2-Tetrachloroethane		<200	<200	<0.5	<200	<200	<200	<100	<200	<200	<200	<0.5	<200	<200
Tetrachloroethene	5	<100	100.3	37.0	<100	<100	<100	122.0	<100	<100	162.0	150.0	<100	139.0
1,1,1-Trichloroethane	200	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
1,1,2-Trichloroethane	5	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	5.0	<100	<100
Trichloroethene	5	322.0	405.9	190.0	197.1	<100	141.9	424.0	349.0	252.0	635.0	450.0	425.0	519.0
Freon-11		<200	<200	<1	<200	<200	<200	<100	<200	<200	<200	<0.5	<200	<200
Freon-113	1200	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	<100	<0.5	<100	<100
Freon-114		<300	<300		<300	<300	<300	<150	<300	<300	<300		<300	<300
Freon-123A		<100	<100		<100	<100	<100	<50	<100	<100	<100		<100	<100
Vinyl Chloride	0.5	<100	<100	<0.5	<100	<100	<100	<50	<100	<100	259.0	6.5	<100	<100
Total Halogenated Hydrocarbons		5,969	7,098.8	604.0	4,101.2	2,696.2	3,408.3	8,196	6,962	5,346	9,556	7,168.7	8,298	8,120
Total Concentration of VOCs		5,969	7,098.8	604.0	4,101.2	2,696.2	3,408.3	8,196	6,962	5,346	9,556	7,169.26	8,298	8,120

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-00-1 (Cont'd)									SB64-00-2		
		05-Feb-04	17-Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Dec-00	(D)*	Apr-01
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
n-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
sec-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
ter-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Chlorobenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Ethylbenzene	300	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Isopropylbenzene		<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
p-Isopropyltoluene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Methyl tert-Butyl Ether	13	<500	<500	<500	<500	<500	<500	<500	<500	<500	<50	<0.5	<5
Naphthalene		<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
n-Propylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Toluene	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Xylenes, total	1750	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<1	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Bromomethane		<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<40	<1	<4
Carbon Tetrachloride	0.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Chloroethane		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<300	<0.5	<30
Chloroform	100	<300	<300	<300	<300	<300	<300	<300	<300	<300	<30	<0.5	<3
Chloromethane		<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<10	<0.5	<1
2-Chlorotoluene		<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
1,1-Dichloroethane	5	7,390	6,420	6,510	5,350	4,970	4,510	4,210	3,900	4,960	<10	8.0†	26.4
1,2-Dichloroethane	0.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
1,1-Dichloroethene	6	861.0	681.0	770.0	526.0	492.0	456.0	497.0	468.0	475.0	25.8	26†	58.2
cis-1,2-Dichloroethene	6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
trans-1,2-Dichloroethene	10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
1,3-Dichloropropane	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Methylene Chloride	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<1	<1
1,1,2,2-Tetrachloroethane	1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
1,1,1,2-Tetrachloroethane		<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
Tetrachloroethene	5	112.0	<100	172.0	204.0	147.0	160.0	141.0	<100	<100	<10	1.1	<1
1,1,1-Trichloroethane	200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	0.81	3.0
1,1,2-Trichloroethane	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Trichloroethene	5	522.0	439.0	473.0	524.0	429.0	486.0	444.0	343.0	358.0	<10	3.0	9.7
Freon-11		<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<0.5	<2
Freon-113	1200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<0.5	<1
Freon-114		<300	<300	<300	<300	<300	<300	<300	<300	<300	<30		<3
Freon-123A		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10		<1
Vinyl Chloride	0.5	<100	<100	136.0	115.0	197.0	130.0	249.0	<100	<100	<10	<0.5	<1
Total Halogenated Hydrocarbons		8,885	7,540	8,061	6,719	6,235	5,742	5,541	4,711	5,793	25.8	38.9	97.3
Total Concentration of VOCs		8,885	7,540	8,061	6,719	6,235	5,742	5,541	4,711	5,793	25.8	38.9	97.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
†-surrogate recovery out of range

(D) = Duplicate sample

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-00-2 (continued) Jun-01	Sep-01	Mar-02	Sep-02	Jan-03	Apr-03	Jul-03	Nov-03	Dec-03	Dec-03*	08-Jan-04	22-Jan-04	05-Feb-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3
Chloromethane		<10	<1	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethane	5	22.8	13.9	32.3	30.9	12.3	34.4	35.9	92.6	81.9	98.0	7.3	199.0	194.0
1,2-Dichloroethane	0.5	<2	<2	<1	<1	<2	<2	<2	2.9	3.3	3.5	<2	6.5	8.3
1,1-Dichloroethene	6	50.9	32.2	74.5	108.8	35.0	85.3	63.1	364.0	314.0	280.0	28.6	507.0	697.0
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	3.2	3.3	3.6	<1	5.7	6.4
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.56	<1	<1	1.1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	5.3	1.8	3.0	3.0	4.4	4.7	3.8	4.8	8.1	11.0#	<1	23.4	36.4
1,1,1-Trichloroethane	200	1.6	<1	1.0	1.0	<1	<1	<1	<1	1.1	1.5	<1	2.2	3.0
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	7.9	4.7	8.7	10.3	4.5	12.5	12.3	34.1	35.5	51.0	4.2	99.8	130.0
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		88.5	52.6	119.5	154.0	56.2	136.9	115.1	501.6	447.2	449.16	40.1	843.6	1,076.2
Total Concentration of VOCs		88.5	52.6	119.5	154.0	56.2	136.9	115.1	501.6	447.2	449.16	40.1	843.6	1,076.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

- Detected in CCB above PQL
* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-00-2 (continued)								SB64-02-1A	
		17-Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Apr-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons											
Benzene	1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<30	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons											
Halogenated Non-Aromatic Hydrocarbons											
Bromodichloromethane		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<100	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	31.1	15.9
Chloroethane		<30	<30	<300	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<30	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<100	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	219.0	70.4	67.2	197.0	134.0	270.0	211.0	130.0	9,000	7,550
1,2-Dichloroethane	0.5	10.2	3.5	<20	7.5	6.2	8.6	6.6	6.4	53.7	63.0
1,1-Dichloroethene	6	829.0	200.0	138.0	575.0	352.0	889.0	731.0	339.0	1,330	1,680
cis-1,2-Dichloroethene	6	7.0	2.0	<10	4.9	4.1	5.8	5.4	3.9	45.1	60.9
trans-1,2-Dichloroethene	10	1.4	<1	<10	<1	<1	1.1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<1	<1	<1	<1	<1	3.0	4.8
1,1,1,2-Tetrachloroethane		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	45.6	13.4	15.8	61.3	46.1	92.3	56.6	37.3	131.0	156.0
1,1,1-Trichloroethane	200	4.0	1.2	<10	3.4	2.4	4.1	2.7	2.1	217.0	120.0
1,1,2-Trichloroethane	5	1.0	<1	<10	1.3	<1	1.5	<1	<1	12.9	12.2
Trichloroethene	5	160.0	51.5	46.8	145.0	122.0	242.0	126.0	97.7	521.0	550.0
Freon-11		<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<10	<1	<1	<1	<1	<1	<1	3.0
Freon-114		<3	<3	<30	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	5.4	8.9
Total Halogenated Hydrocarbons		1,277.2	342.0	267.8	995.4	666.8	1,514.4	1,139.3	616.4	11,350.2	10,224.7
Total Concentration of VOCs		1,277.2	342.0	267.8	995.4	666.8	1,514.4	1,139.3	616.4	11,350.2	10,224.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-02-1B							SB64-02-1C					
		Sep-02	Nov-02	Feb-03	Apr-03	Nov-03	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03	Apr-03	Jul-03*	Dec-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
n-Butylbenzene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
sec-Butylbenzene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
ter-Butylbenzene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Chlorobenzene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Ethylbenzene	300	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Isopropylbenzene		<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<0.5	<2
p-Isopropyltoluene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Methyl tert-Butyl Ether	13	<500	<500	<500	<500	<250	<250	<500	<50	<50	<50	<50	<0.5	<5
Naphthalene		<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<0.5	<2
n-Propylbenzene		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Toluene	150	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	1.2	1.2
Xylenes, total	1750	<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<1	<1
Total Aromatic Hydrocarbons													1.2	1.2
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Bromomethane		<1000	<1000	<1000	<1000	<100	<100	<1000	<100	<100	<100	<100	<1	<10
Carbon Tetrachloride	0.5	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Chloroethane		<3000	<3000	<3000	<3000	<1500	<1500	<3000	<300	<300	<300	<300	0.68	<30
Chloroform	100	<300	<300	<300	<300	<150	<150	<300	<30	<30	<30	<30	0.70	<3
Chloromethane		<1000	<1000	<1000	<1000	<500	<500	<1000	<100	<100	<100	<100	<0.5	<10
2-Chlorotoluene		<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<0.5	<2
1,1-Dichloroethane	5	12,929.1	12,860	8,530	2,170	3,090	2,510	3,620	682.2	1,010.3	917.0	495.0	420.0	698.0
1,2-Dichloroethane	0.5	<100	<200	<200	<200	<100	<100	<200	<10	<20	<20	<20	3.8	4.6
1,1-Dichloroethene	6	1,710.9	1,342.7	773.0	241.0	260.0	352.0	703.0	51.8	112.5	111.0	93.1	92.0	127.0
cis-1,2-Dichloroethene	6	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	2.5	16.7
trans-1,2-Dichloroethene	10	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
1,2-Dichloropropane	5	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Methylene Chloride	5	<100	<100	<100	<100	<50	<50	<100	19.1	26.4	26.7	18.7	<1	1.7
1,1,2,2-Tetrachloroethane	1	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
1,1,1,2-Tetrachloroethane		<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<0.5	<2
Tetrachloroethene	5	135.6	116.5	104.0	<100	<50	76.5	<100	<10	<10	<10	<10	4.4	5.4
1,1,1-Trichloroethane	200	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	0.69	<1
1,1,2-Trichloroethane	5	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Trichloroethene	5	680.7	765.9	409.0	162.0	192.0	325.0	454.0	21.4	42.9	39.3	36.0	37.0	44.8
Freon-11		<200	<200	<200	<200	<100	<100	<200	<20	<20	<20	<20	<0.5	<2
Freon-113	1200	<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10	<0.5	<1
Freon-114		<300	<300	<300	<300	<150	<150	<300	<30	<30	<30	<30		<3
Freon-123A		<100	<100	<100	<100	<50	<50	<100	<10	<10	<10	<10		<1
Vinyl Chloride	0.5	460.5	835.1	542.0	201.0	<50	135.0	205.0	11.8	38.9	44.1	27.9	20.0	26.4
Total Halogenated Hydrocarbons		15,916.8	15,920.2	10,358	2,774	3,542.0	3,398.5	4,982	786.3	1,231.0	1,138.1	670.7	581.77	924.6
Total Concentration of VOCs		15,916.8	15,920.2	10,358	2,774	3,542.0	3,398.5	4,982	786.3	1,231.0	1,138.1	670.7	582.97	925.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB64-02-1C (Cont'd)		SB64-02-1D								SB64-02-1E		
Constituent	MCL	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03	Apr-03	Jul-03*	Nov-03	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<20	<20	<20	<20	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<50	<50	<50	<50	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<20	<20	<20	<20	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<10	<10	<10	<10	0.67	<1	<1	<1	<1	<1	1.6
Xylenes, total	1750	<2	<2	<20	<20	<20	<20	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons								0.67						1.6
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<100	<100	<100	<100	<1	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<300	<300	<300	<300	<0.5	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<30	<30	<30	<30	0.73	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<100	<100	<100	<100	<0.5	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<20	<20	<20	<20	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	829.0	900.0	352.4	422.4	233.0	442.0	270.0	292.0	271.0	241.0	77.3	160.4	141.0
1,2-Dichloroethane	0.5	5.4	9.1	<20	<20	<20	<20	3.2	2.6	<2	3.5	<2	<2	<2
1,1-Dichloroethene	6	75.5	197.0	26.5	39.9	37.2	40.7	53.0	42.5	23.3	53.1	5.3	21.9	26.1
cis-1,2-Dichloroethene	6	49.5	96.4	<10	<10	<10	<10	2.2	2.1	3.7	30.0	<1	1.1	1.5
trans-1,2-Dichloroethene	10	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<10	<10	10.3	3.0	<1	<1	<1	1.0	1.2	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<20	<20	<20	<20	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<10	<10	<10	<10	1.4	1.9	1.1	<1	<1	1.4	<1
1,1,1-Trichloroethane	200	<1	<1	<10	<10	<10	<10	0.76	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	8.1	16.7	<10	10.8	11.6	16.3	19.0	13.1	11.7	9.9	2.5	7.2	9.5
Freon-11		<2	<2	<20	<20	<20	<20	<0.5	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<10	<10	<10	<10	<0.5	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<30	<30	<30	<30		<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<10	<10	<10	<10		<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	13.1	40.8	15.2	15.4	19.4	13.3	15.0	18.8	13.9	25.2	3.9	10.7	13.2
Total Halogenated Hydrocarbons		980.6	1,260.0	394.1	488.5	301.2	522.6	368.29	373.0	324.7	362.7	90.0	203.9	191.3
Total Concentration of VOCs		980.6	1,260.0	394.1	488.5	301.2	522.6	368.96	373.0	324.7	362.7	90.0	203.9	192.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-02-1E (cpntinued)					SB64-02-1F							
		Apr-03	Jul-03*	Nov-03	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03	Jun-03	Jul-03*	Nov-03	Apr-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Chlorobenzene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<20	<20	<20	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<5	<5	<50	<50	<50	<5	<0.5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<2	<20	<20	<20	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Toluene	150	2.0	2.4	2.3	1.8	1.4	<10	<10	<10	5.2	2.1	3.7	<1	<1
Xylenes, total	1750	<2	<1	<1	<2	<2	<20	<20	<20	<2	<1	<1	<2	<2
Total Aromatic Hydrocarbons		2.0	2.4	2.3	1.8	1.4				5.2	2.1	3.7		
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Bromomethane		<10	<1	<10	<10	<10	<100	<100	<100	<10	<1	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Chloroethane		<30	<0.5	<30	<30	<30	<300	<300	<300	<30	<0.5	<30	<30	<30
Chloroform	100	<3	0.54	<3	<3	<3	<30	<30	<30	<3	0.80	<3	<3	<3
Chloromethane		<10	<0.5	<10	<10	<10	<100	<100	<100	<10	<0.5	<10	<10	<10
2-Chlorotoluene		<2	<0.5	<2	<2	<2	<20	<20	<20	<2	<0.5	<2	<2	<2
1,1-Dichloroethane	5	122.0	100.0	135.0	106.0	145.0	167.3	227.3	178.0	254.0	35.0	151.0	93.8	91.1
1,2-Dichloroethane	0.5	<2	1.2	<2	<2	<2	<20	<20	<20	2.2	1.4	<2	<2	<2
1,1-Dichloroethene	6	17.7	14.0	17.2	10.0	15.6	21.2	26.4	22.2	22.6	13.0	20.9	7.3	10.5
cis-1,2-Dichloroethene	6	<1	0.88	<1	1.0	3.6	<10	<10	<10	2.0	0.86	1.2	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
1,2-Dichloropropane	5	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<0.5	<2	<2	<2	<20	<20	<20	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	<1	0.61	<1	<1	<1	<10	<10	<10	<1	0.53	<1	1.9	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Trichloroethene	5	8.4	5.8	7.4	5.3	4.5	<10	<10	<10	9.4	4.6	6.8	3.8	<1
Freon-11		<2	<0.5	<2	<2	<2	<20	<20	<20	<2	<0.5	<2	<2	<2
Freon-113	1200	<1	<0.5	<1	<1	<1	<10	<10	<10	<1	<0.5	<1	<1	<1
Freon-114		<3		<3	<3	<3	<30	<30	<30	<3		<3	<3	<3
Freon-123A		<1		<1	<1	<1	<10	<10	<10	<1		<1	<1	<1
Vinyl Chloride	0.5	8.8	7.0	11.2	8.5	10.8	15.1	22.5	15.0	13.3	7.9	9.6	5.7	5.1
Total Halogenated Hydrocarbons		156.9	130.03	170.8	130.8	179.5	203.6	276.2	215.2	303.5	64.09	189.5	112.5	106.7
Total Concentration of VOCs		158.9	132.43	173.1	132.6	180.9	203.6	276.2	215.2	308.7	66.19	193.2	112.5	106.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB64-02-2A			SB64-02-2B							SB64-02-2C		
Constituent	MCL	Apr-03	Apr-04	Sep-04	Nov-02	Feb-03	Apr-03	Jul-03*	Nov-03	Apr-04	Sep-04	Nov-02	Feb-03	Apr-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Chlorobenzene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<200	<200	<2	<20	<20	<2	<100	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<500	<500	<5	<50	<50	<2	<250	<5	<5	<5	<5	<5
Naphthalene		<2	<200	<200	<2	<20	<20	<2	<100	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Toluene	150	1.7	<100	<100	<1	<10	<10	<2	<50	1.2	1.6	<1	<1	<1
Xylenes, total	1750	<2	<200	<200	<2	<20	<20	<3	<100	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.7								1.2	1.6			
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		3.4	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Bromomethane		<10	<1000	<1000	<10	<100	<100	<3	<100	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Chloroethane		<30	<3000	<3000	<30	<300	<300	<2	<1500	<30	<30	<30	<30	<30
Chloroform	100	<3	<300	<300	<3	<30	<30	<2	<150	<3	<3	<3	<3	<3
Chloromethane		<10	<1000	<1000	<10	<100	<100	<2	<500	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<200	<200	<2	<20	<20	<2	<100	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	5,730	3,110	1,130	1,253	889.0	995.0	68.0	626.0	606.0	634.0	136.9	241.0	202.0
1,2-Dichloroethane	0.5	74.5	<200	<200	10.2	<20	<20	<2	<100	<2	3.8	<2	<2	2.1
1,1-Dichloroethene	6	237.0	330.0	<100	206.7	161.0	186.0	9.7	89.2	61.5	84.4	142.8	80.6	63.0
cis-1,2-Dichloroethene	6	45.2	<100	<100	3.6	<10	<10	<2	<50	11.1	38.4	<1	<1	1.6
trans-1,2-Dichloroethene	10	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	1.2	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Methylene Chloride	5	57.2	<100	<100	29.8	27.8	24.3	<3	<50	1.6	8.4	3.8	2.6	2.9
1,1,2,2-Tetrachloroethane	1	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<200	<200	<2	<20	<20	<2	<100	<2	<2	<2	<2	<2
Tetrachloroethene	5	29.9	<100	<100	8.1	<10	<10	<2	<50	1.6	<1	6.4	2.2	4.1
1,1,1-Trichloroethane	200	5.0	<100	<100	3.0	<10	<10	<2	<50	<1	<1	1.1	<1	<1
1,1,2-Trichloroethane	5	11.1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Trichloroethene	5	257.0	344.0	206.0	42.7	38.5	74.7	7.6	<50	19.2	16.8	12.9	13.5	37.6
Freon-11		<2	<200	<200	<2	<20	<20	<2	<100	<2	<2	<2	<2	<2
Freon-113	1200	<1	<100	<100	<1	<10	<10	<2	<50	<1	<1	<1	<1	<1
Freon-114		<3	<300	<300	<3	<30	<30		<150	<3	<3	<3	<3	<3
Freon-123A		<1	<100	<100	<1	<10	<10		<50	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	44.5	<100	<100	13.7	14.1	17.6	<2	<50	2.5	3.4	8.3	8.4	5.6
Total Halogenated Hydrocarbons		6,496.0	3,784	1,336	1,570.8	1,130.4	1,297.6	85.3	715.2	703.5	789.2	312.2	348.3	318.9
Total Concentration of VOCs		6,497.7	3,784	1,336	1,570.8	1,130.4	1,297.6	85.3	715.2	704.7	790.8	312.2	348.3	318.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB64-02-2C (continued)			SB64-02-2D						SB64-02-2E			
Constituent	MCL	Jul-03*	Apr-04	Sep-04	Nov-02	Feb-03	Jun-03	Jul-03*	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03	Apr-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<30	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<20	<2	<2	<20	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<0.5	<50	<5	<5	<50	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<0.5	<20	<2	<2	<20	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<10	1.7	<1	<10	<1	<0.5	1.1	1.9	<1	1.5	2.2	<1
Xylenes, total	1750	<1	<20	<2	<2	<20	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons				1.7					1.1	1.9		1.5	2.2	
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Bromomethane		<1	<100	<10	<2	<20	<2	<1	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroethane		<0.5	<300	<30	<30	<300	<30	<0.5	<30	<30	<30	<30	<30	<30
Chloroform	100	0.78	<30	<3	<3	<30	<3	0.96	<3	<3	<3	<3	<3	<3
Chloromethane		<0.5	<100	<10	<10	<100	<10	<0.5	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<0.5	<20	<2	<2	<20	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	120.0	151.0	150.0	574.3	341.0	260.0	120.0	68.0	144.0	37.7	39.7	58.2	345.0
1,2-Dichloroethane	0.5	0.67	<20	<2	<2	<20	<2	1.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	51.0	49.8	57.0	113.7	70.6	47.8	45.0	13.1	52.2	26.3	23.5	31.4	53.0
cis-1,2-Dichloroethene	6	0.59	<10	30.7	<1	<10	1.1	0.90	2.7	17.8	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<10	<1	3.7	<10	3.1	<1	<1	<1	1.2	1.3	1.0	3.0
1,1,2,2-Tetrachloroethane	1	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<20	<2	<2	<20	<2	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	0.97	<10	<1	6.3	<10	<1	0.53	3.4	<1	<1	2.5	<1	1.6
1,1,1-Trichloroethane	200	0.63	<10	<1	2.2	<10	<1	0.76	<1	<1	<1	<1	<1	1.1
1,1,2-Trichloroethane	5	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	12.0	14.8	7.2	10.3	11.5	8.6	8.7	17.3	7.7	1.9	2.0	4.6	16.5
Freon-11		<0.5	<20	<2	<2	<20	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon-113	1200	<0.5	<10	<1	<1	<10	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-114			<30	<3	<3	<30	<3		<3	<3	<3	<3	<3	<3
Freon-123A			<10	<1	<1	<10	<1		<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	2.8	<10	2.8	7.5	<10	4.8	3.8	<1	1.7	5.5	4.1	5.1	6.6
Total Halogenated Hydrocarbons		189.44	215.6	247.7	718.0	423.1	325.4	182.15	104.5	223.4	72.6	73.1	100.3	426.8
Total Concentration of VOCs		189.44	215.6	249.4	718.0	423.1	325.4	182.15	105.6	225.3	72.6	74.6	102.5	426.8

MCL = Maximum contaminant level for drinking water
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= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-02-2E (continued)			SB64-02-2F						
		Jul-03*	Apr-04	Sep-04	Sep-02	Nov-02	Feb-03	Jun-03	Jul-03*	Apr-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons											
Benzene	1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13	<0.5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	0.52	8.1	9.4	<1	1.3	2.3	<1	0.52	4.2	<1
Xylenes, total	1750	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons		0.52	8.1	9.4		1.3	2.3		0.52	4.2	
Halogenated Non-Aromatic Hydrocarbons											
Bromodichloromethane		<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Bromomethane		<1	<10	<10	<10	<10	<10	<10	<1	<10	<10
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<0.5	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	1.4	<3	<3	<3	<3	<3	<3	1.4	<3	<3
Chloromethane		<0.5	<10	<10	<10	<10	<10	<10	<0.5	<10	<10
2-Chlorotoluene		<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethane	5	52.0	79.1	90.2	30.7	171.6	170.0	537.0	73.0	164.0	48.1
1,2-Dichloroethane	0.5	<0.5	<2	<2	<2	<2	<2	3.1	1.4	<2	<2
1,1-Dichloroethene	6	23.0	30.1	38.8	12.1	37.8	38.3	78.7	8.1	40.0	5.0
cis-1,2-Dichloroethene	6	<0.5	3.8	10.4	<1	<1	<1	2.2	<0.5	32.8	5.8
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloropropane	5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	1.6	4.0	2.4	3.5	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	<0.5	<1	<1	2.0	11.6	1.3	<1	<0.5	1.4	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	3.9	4.8	4.2	6.7	9.5	6.9	9.4	1.9	9.4	<1
Freon-11		<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Freon-113	1200	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-114			<3	<3	<3	<3	<3	<3		<3	<3
Freon-123A			<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	2.2	2.1	<1	1.5	4.2	5.9	7.7	0.98	3.2	<1
Total Halogenated Hydrocarbons		82.50	119.9	143.6	54.6	238.7	224.8	641.6	86.78	250.8	58.9
Total Concentration of VOCs		83.02	128.0	153.0	54.6	240.0	227.1	641.6	87.30	255.0	58.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-1A											
		Apr-03	May-03	Sep-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			2.0										
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	5.0	39.9	20.1	16.5	12.7	12.6	17.4	21.5	35.4	47.0
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				5.0	42.1	20.1	16.5	12.7	12.6	17.4	21.5	35.4	47.0
Total Concentration of VOCs			2.0	5.0	42.1	20.1	16.5	12.7	12.6	17.4	21.5	35.4	47.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-1B												
		Apr-03	5-May-03	14-May-03	20-May-03	30-May-03	4-Jun-03	10-Jun-03	17-Jun-03	24-Jun-03	10-Jul-03	18-Jul-03	25-Jul-03*	1-Aug-03*
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
n-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
sec-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
ter-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Chlorobenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Ethylbenzene	300	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Isopropylbenzene		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5
p-Isopropyltoluene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Methyl tert-Butyl Ether	13	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5
Naphthalene		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5
n-Propylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Toluene	150	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Xylenes, total	1750	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<1	<1
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Bromomethane		<10	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Chloroethane		<30	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30	1.6	<0.5
Chloroform	100	<3	<3	<3	<30	<3	<3	<3	<3	<3	<3	<3	<0.5	<0.5
Chloromethane		<10	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<0.5	<0.5
2-Chlorotoluene		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5
1,1-Dichloroethane	5	429.0	315.0	873.0	1,020	1,070	1,410	1,080	1,450	1,480	1,630	1,390	890.0	1,100
1,2-Dichloroethane	0.5	<2	<2	4.5	<20	5.9	6.8	6.9	8.5	9.0	9.8	10.1	7.6	7.1
1,1-Dichloroethene	6	55.8	34.9	117.0	131.0	161.0	196.0	186.0	176.0	196.0	183.0	140.0	160.0	160.0
cis-1,2-Dichloroethene	6	1.2	1.2	4.0	<10	5.8	7.2	6.3	8.2	8.5	8.3	6.5	6.9	8.9
trans-1,2-Dichloroethene	10	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,2-Dichloropropane	5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Methylene Chloride	5	5.3	4.5	11.0	11.8	12.8	16.0	14.3	17.1	17.5	19.2	15.0	12.0	16.0
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,1,1,2-Tetrachloroethane		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5
Tetrachloroethene	5	<1	<1	3.3	<10	2.1	2.2	2.3	3.3	4.2	4.6	2.5	5.7	4.3
1,1,1-Trichloroethane	200	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
1,1,2-Trichloroethane	5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	0.50	<0.5
Trichloroethene	5	6.6	2.8	19.9	21.1	29.4	35.1	34.7	45.1	48.9	54.2	38.7	45.0	51.0
Freon-11		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5
Freon-113	1200	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
Freon-114		<3	<3	<3	<30	<3	<3	<3	17.8	17.8	18.2	15.8		
Freon-123A		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1		
Vinyl Chloride	0.5	25.3	25.7	54.0	52.4	64.8	76.5	79.2	95.6	104.0	108.0	73.3	67.0	100.0#
Total Halogenated Hydrocarbons		523.2	384.1	1,086.7	1,236.3	1,351.8	1,749.8	1,409.7	1,821.6	1,885.9	2,035.3	1,691.9	1,196.3	1,447.3
Total Concentration of VOCs		523.2	384.1	1,086.7	1,236.3	1,351.8	1,749.8	1,409.7	1,821.6	1,885.9	2,035.3	1,691.9	1,196.3	1,447.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
#Result is not within quantitation range

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-1B (continued)													
		6-Aug-03	14-Aug-03	21-Aug-03*	26-Aug-03*	11-Sep-03	Jan-04	Feb-04	Apr-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<30	<1	<0.5	<0.5	<30	<1	<30	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<2	<0.5	<0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<50	<5	<0.5	<0.5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<20	<2	<0.5	<0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<2	<1	<1	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<100	<10	<1	<1	<100	<10	<100	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<300	<30	1.9	1.6	<300	<30	<300	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<30	<3	<0.5	<0.5	<30	<3	<30	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<100	<10	<0.5	<0.5	<100	<10	<100	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<20	<2	<0.5	<0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	1,570	1,170	1,200	1,200	461.0	475.0	682.0	469.0	644.0	378.0	559.0	637.0	578.0	573.0
1,2-Dichloroethane	0.5	<20	9.2	8.2	8.7	<20	5.1	<20	4.5	6.0	6.0	2.5	6.7	7.0	7.6
1,1-Dichloroethene	6	338.0	213.0	210.0	190.0	60.1	27.6	32.2	13.3	21.8	19.8	19.0	23.1	24.8	23.3
cis-1,2-Dichloroethene	6	<10	9.7	7.7	8.0	<10	3.3	<10	2.4	3.0	2.6	2.1	3.6	3.7	4.2
trans-1,2-Dichloroethene	10	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	20.0	16.2	15.0	16.0	<10	3.8	<10	2.1	1.9	2.3	<1	1.2	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<2	<0.5	<0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	13.0	2.8	4.9	3.6	<10	2.5	<10	2.3	3.5	1.8	5.1	4.5	4.5	3.5
1,1,1-Trichloroethane	200	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<1	<0.5	0.58	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	60.3	43.2	51.0	47.0	17.3	19.8	23.8	13.4	27.2	18.0	29.1	33.7	32.2	29.6
Freon-11		<20	<2	<0.5	<0.5	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<10	<1	<0.5	<0.5	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Freon-114		<30	<3			<30	<3	<30	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<10	<1			<10	<1	<10	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	113.0	84.4	74.0	70.0	14.2	2.3	<10	<1	1.5	1.2	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2,114.3	1,548.5	1,572.7	1,545.5	552.6	539.4	738.0	507.0	708.9	429.7	616.8	709.8	650.2	641.2
Total Concentration of VOCs		2,114.3	1,548.5	1,572.7	1,545.5	552.6	539.4	738.0	507.0	708.9	429.7	616.8	709.8	650.2	641.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-2											
		Apr-03	May-03	Sep-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons													
Total Concentration of VOCs													

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-3									SB64-03-4			
		Jun-03	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Jun-03	Jan-04	Feb-04	Mar-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	1,420	35.2	28.3	25.6
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	201.0	3.4	2.2	2.2
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.2	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	15.4	1.3	1.2	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	19.2	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	34.7	<1	<1	<1
Freon-11		<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	71.2	1.3	<1	<1
Total Halogenated Hydrocarbons											1,774.2	41.2	31.7	27.8
Total Concentration of VOCs											1,774.2	41.2	31.7	27.8

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-4 (continued)						SB64-03-5						
		Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Sep-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	21.5	26.1	22.2	23.6	29.8	28.3	6.8	3.2	13.4	8.1	7.0	9.1	8.4
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.4	1.9	1.7	1.7	<1	<1	8.4	3.6	16.1	11.8	8.2	10.5	9.0
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	2.0	2.8	4.1	3.5	3.3	4.2	3.2
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	3.5	3.2	2.2	2.3	3.0	3.9	3.8
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	24.1	86.3	29.2	32.1	71.3	68.0	48.4
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		22.9	30.6	23.9	25.3	29.8	28.3	44.8	99.1	65.0	57.8	92.8	95.7	72.8
Total Concentration of VOCs		22.9	30.6	23.9	25.3	29.8	28.3	44.8	99.1	65.0	57.8	92.8	95.7	72.8

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-5 (continued)			SB64-03-6									
		Jul-04	Aug-04	Sep-04	Sep-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	11.9	15.3	8.0	<1	1.3	2.0	1.9	3.7	4.0	2.8	4.6	3.8	4.0
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	17.1	23.9	10.4	3.0	2.3	6.3	5.0	9.5	10.4	5.5	12.6	10.1	7.2
cis-1,2-Dichloroethene	6	4.5	4.8	3.7	12.0	17.8	20.7	16.6	16.9	18.8	13.1	17.9	14.7	14.2
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	8.4	10.7	6.6	3.7	3.0	6.3	5.1	12.6	10.3	7.1	14.3	10.2	8.7
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	74.4	55.0	80.7	103.0	107.0	172.0	159.0	298.0	284.0	160.0	252.0	232.0	150.0
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		116.3	109.7	109.4	121.7	131.4	207.3	187.6	340.7	327.5	188.5	301.4	270.8	184.1
Total Concentration of VOCs		116.3	109.7	109.4	121.7	131.4	207.3	187.6	340.7	327.5	188.5	301.4	270.8	184.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-7											SB64-03-8	
		12-Jan-04	22-Jan-04	5-Feb-04	17-Feb-04	17-Mar-04	Apr-04	May-04*	Jun-04	Jul-04	Aug-04	Sep-04	12-Jan-04	22-Jan-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	268.0	442.0
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	8.7	9.0
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	34.3	91.1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	1.5	2.1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	4.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	37.1	85.7
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	2.7	5.6
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	2.1	2.2
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	59.6	116.0
Freon-11		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				4.5									414.0	753.7
Total Concentration of VOCs				4.5									414.0	753.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-8 (continued)									SB64-03-12			
		5-Feb-04	17-Feb-04	17-Mar-04	Apr-04	May-04*	Jun-04	Jul-04	Aug-04	Sep-04	Jan-04	Feb-04	Apr-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	324.0	264.0	135.0	105.0	80.0	52.8	41.0	40.9	39.9	3.8	3.2	2.5	3.0
1,2-Dichloroethane	0.5	6.2	6.4	3.5	2.5	2.9	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	61.2	67.1	34.2	30.1	31.0	21.9	18.8	23.1	17.2	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	1.1	<1	<1	0.67	<1	<1	2.0	5.6	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	52.8	66.8	40.6	40.8	38.0	29.6	25.8	22.7	16.8	3.2	<1	<1	<1
1,1,1-Trichloroethane	200	3.8	4.3	1.7	1.5	1.1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	1.4	1.4	<1	<1	0.64	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	73.7	78.3	46.9	43.5	44.0	32.2	22.5	21.3	18.6	3.7	4.2	4.4	<1
Freon-11		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		523.1	489.4	261.9	223.4	198.3	136.5	108.1	110.0	98.1	10.7	7.4	6.9	3.0
Total Concentration of VOCs		523.1	489.4	261.9	223.4	198.3	136.5	108.1	110.0	98.1	10.7	7.4	6.9	3.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB64-03-13				SB71B-99-1						
		Jan-04	Feb-04	Apr-04	Sep-04	May-99	May-01	Sep-01	Mar-02	Sep-02	Sep-03	Sep-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<4	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<1	<3	<3	<3	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<1	<1	<10	<1	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	20.0	28.3	43.0	23.0	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	6.2	11.2	18.8	7.8	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	8.6	21.9	11.4	9.3	14.9	25.0	22.1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	9.1	1.5	<1	29.5	14.5	<1	2.1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	10.4	16.7	24.5	10.0	16.1	6.9	3.8	25.5	41.8	13.6	17.4
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		36.6	56.2	86.3	40.8	33.8	30.3	15.2	64.3	71.2	38.6	41.6
Total Concentration of VOCs		36.6	56.2	86.3	40.8	33.8	30.3	15.2	64.3	71.2	38.6	41.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-99-2							SB71B-03-1					
		May-99	May-01	Sep-01	Mar-02	Sep-02	Sep-03	Sep-04	5-Jun-03	19-Jun-03	20-Jun-03	23-Jun-03	24-Jun-03	25-Jun-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<30	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Bromomethane		<4	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<300	<300	<30	<30
Chloroform	100	<1	<3	<3	<3	<3	<3	<3	<3	<3	<30	<30	<3	<3
Chloromethane		<1	<1	<10	<1	<10	<10	<10	<10	<10	<100	<100	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	11.0	2.7	<1	<1	11.2	7.2	15.5	19.9	11.1	8.4
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	1.0	<1	<1	307.0	38.2	92.3	106.0	124.0	157.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Trichloroethene	5	<1	<1	<1	2.7	3.2	<1	<1	19.3	7.2	15.5	17.3	14.9	14.5
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<30	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1
Vinyl Chloride	0.5	<1	3.4	<1	5.6	<1	<1	<1	<1	<1	<10	<10	<1	<1
Total Halogenated Hydrocarbons			3.4		19.3	6.9			337.5	52.6	123.3	143.2	150.0	179.9
Total Concentration of VOCs			3.4		19.3	6.9			337.5	52.6	123.3	143.2	150.0	179.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-1 (continued)													
		26-Jun-03	27-Jun-03*	30-Jun-03*	1-Jul-03*	2-Jul-03*	3-Jul-03*	8-Jul-03	15-Jul-03	22-Jul-03	21-Aug-03*	17-Oct-03	20-Oct-03	21-Oct-03	22-Oct-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Chlorobenzene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<1	<1	<1	<1	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Bromomethane		<10	<1	<1	<1	<1	<1	<10	<10	<10	<1	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroethane		<30	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<30	<30	<0.5	<30	<30	<30	<30
Chloroform	100	<3	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloromethane		<10	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<0.5	<10	<10	<10	<10
2-Chlorotoluene		<2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	8.0	8.1	12.0	9.1	10.0	7.0	11.9	8.2	8.6	8.0	28.9	10.9	12.1	9.5
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2
Tetrachloroethene	5	145.0	140.0	94.0	93.0	110.0	110.0	120.0	95.5	106.0	92.0	61.1	50.3	54.2	54.5
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	13.7	16.0	17.0	14.0	17.0	14.0	15.5	12.5	14.5	14.0	18.4	12.4	11.6	10.1
Freon-11		<2	0.55	<0.5	<0.5	0.56	0.53	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon-113	1200	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-114		<3						<3	<3	<3		<3	<3	<3	<3
Freon-123A		<1						<1	<1	<1		<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		166.7	164.65	123.0	116.1	137.56	131.53	147.4	116.2	129.1	114.0	108.4	73.6	77.9	74.1
Total Concentration of VOCs		166.7	164.65	123.0	116.1	137.56	131.53	147.4	116.2	129.1	114.0	108.4	73.6	77.9	74.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-1 (continued)													
		23-Oct-03	24-Oct-03	27-Oct-03	31-Oct-03	4-Nov-03	7-Nov-03	11-Nov-03	18-Nov-03	24-Nov-03	2-Dec-03	9-Dec-03*	7-Jan-04	13-Jan-04	20-Jan-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Bromomethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	8.1	6.8	15.9	33.0	21.2	17.7	19.4	26.7	24.2	26.7	10.0	62.9	56.3	57.5
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	52.5	52.2	54.8	54.9	56.3	65.8	72.4	70.0	83.0	74.8	87.0	1,690	1,610	1,740
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	9.5	8.9	9.9	14.8	14.5	13.0	17.4	20.5	23.6	22.4	15.0	113.0	90.0	79.7
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		70.1	67.9	80.6	102.7	92.0	96.5	109.2	117.2	130.8	123.9	112.0	1,865.9	1,756.3	1,877.2
Total Concentration of VOCs		70.1	67.9	80.6	102.7	92.0	96.5	109.2	117.2	130.8	123.9	112.0	1,865.9	1,756.3	1,877.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-1 (Continued)													
		27-Jan-04	3-Feb-04	9-Feb-04	19-Feb-04	24-Feb-04	1-Mar-04	8-Mar-04	16-Mar-04	23-Mar-04	30-Mar-04	6-Apr-04	13-Apr-04	20-Apr-04	26-Apr-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Chlorobenzene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Ethylbenzene	300	<30	<30	<30	<30	<30	<1	<1	<1	<30	<30	<30	<30	<30	<30
Isopropylbenzene		<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<5	<5	<5	<50	<50	<50	<50	<50	<50
Naphthalene		<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Toluene	150	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Bromomethane		<100	<100	<100	<100	<100	<10	<10	<10	<100	<100	<100	<100	<100	<100
Carbon Tetrachloride	0.5	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Chloroethane		<300	<300	<300	<300	<300	<30	<30	<30	<300	<300	<300	<300	<300	<300
Chloroform	100	<30	<30	<30	<30	<30	<3	<3	<3	<30	<30	<30	<30	<30	<30
Chloromethane		<100	<100	<100	<100	<100	<10	<10	<10	<100	<100	<100	<100	<100	<100
2-Chlorotoluene		<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	72.8	87.4	36.7	99.7	52.4	99.4	78.9	46.5	33.2	37.2	32.9	15.5	24.8	24.5
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
Tetrachloroethene	5	1,550	1,350	912.0	990.0	787.0	824.0	899.0	947.0	759.0	688.0	641.0	473.0	460.0	399.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Trichloroethene	5	96.4	111.0	60.7	98.1	76.2	150.0	139.0	71.1	62.4	66.7	53.8	29.4	34.1	33.4
Freon-11		<20	<20	<20	<20	<20	<2	<2	<2	<20	<20	<20	<20	<20	<20
Freon-113	1200	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Freon-114		<30	<30	<30	<30	<30	<3	<3	<3	<30	<30	<30	<30	<30	<30
Freon-123A		<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	13.1	8.3	2.0	<10	<10	<10	<10	<10	<10
Total Halogenated Hydrocarbons		1,719.2	1,548.4	1,009.4	1,187.8	915.6	1,086.5	1,125.2	1,066.6	854.6	791.9	727.7	517.9	518.9	456.9
Total Concentration of VOCs		1,719.2	1,548.4	1,009.4	1,187.8	915.6	1,086.5	1,125.2	1,066.6	854.6	791.9	727.7	517.9	518.9	456.9

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-1 (Continued)													
		4-May-04	11-May-04	19-May-04	25-May-04*	1-Jun-04	8-Jun-04	15-Jun-04	22-Jun-04	1-Jul-04	8-Jul-04	13-Jul-04	21-Jul-04	27-Jul-04	3-Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
n-Butylbenzene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
sec-Butylbenzene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
ter-Butylbenzene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chlorobenzene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	300	<1	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Isopropylbenzene		<2	<20	<20	<0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
p-Isopropyltoluene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<5	<50	<50	<0.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Naphthalene		<2	<20	<20	<0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
n-Propylbenzene		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	150	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylenes, total	1750	<2	<20	<20	<1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromomethane		<10	<100	<100	<1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Carbon Tetrachloride	0.5	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroethane		<30	<300	<300	<0.5	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Chloroform	100	<3	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloromethane		<10	<100	<100	<0.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
2-Chlorotoluene		<2	<20	<20	<0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
1,1-Dichloroethane	5	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<2	<20	<20	<0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
1,1-Dichloroethene	6	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	66.3	54.3	56.1	41.0	120.0	35.0	26.6	49.6	139.0	25.3	22.6	33.8	36.4	81.7
trans-1,2-Dichloroethene	10	<1	<10	<10	0.85	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dichloropropane	5	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride	5	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<2	<20	<20	<0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Tetrachloroethene	5	458.0	236.0	416.0	410.0	287.0	330.0	482.0	393.0	269.0	223.0	185.0	211.0	271.0	286.0
1,1,1-Trichloroethane	200	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	5	179.0	36.4	135.0	81.0	33.7	39.3	50.1	40.3	35.3	28.5	25.7	36.6	39.7	38.6
Freon-11		<2	<20	<20	1.6	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Freon-113	1200	<1	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Freon-114		<3	<30	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Freon-123A		<1	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	0.5	9.0	<10	<10	3.3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Halogenated Hydrocarbons		712.3	326.7	607.1	537.8	440.7	404.3	558.7	482.9	443.3	276.8	233.3	281.4	347.1	406.3
Total Concentration of VOCs		712.3	326.7	607.1	537.8	440.7	404.3	558.7	482.9	443.3	276.8	233.3	281.4	347.1	406.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-1 (Continued)						SB71B-03-2							
		12-Aug-04	17-Aug-04	24-Aug-04	31-Aug-04	8-Sep-04	15-Sep-04	24-Jun-03	25-Jun-03	26-Jun-03	27-Jun-03*	30-Jun-03*	1-Jul-03*	2-Jul-03*	3-Jul-03*
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	300	<30	<30	<30	<30	<30	<30	<30	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<2	<2	<1	<1	<1	<1	<1
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane		<100	<100	<100	<100	<100	<100	<100	<10	<10	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane		<300	<300	<300	<300	<300	<300	<300	<30	<30	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<3	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<10	<10	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene		<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	6	33.8	30.6	41.5	37.5	19.8	<10	<10	<1	<1	0.53	0.53	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	5	169.0	211.0	164.0	158.0	192.0	165.0	904.0	451.0	399.0	300.0	290.0	270.0	260.0	210.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	5	38.7	37.4	25.3	23.8	23.2	26.0	10.4	4.8	4.5	4.8	5.0	3.9	2.6	2.9
Freon-11		<20	<20	<20	<20	<20	<20	<20	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Freon-114		<30	<30	<30	<30	<30	<30	<30	<3	<3					
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<1	<1					
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Total Halogenated Hydrocarbons		241.5	279.0	230.8	219.3	235.0	191.0	914.4	455.8	403.5	305.33	295.53	273.9	262.6	212.9
Total Concentration of VOCs		241.5	279.0	230.8	219.3	235.0	191.0	914.4	455.8	403.5	305.33	295.53	273.9	262.6	212.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-2 (Continued)													
		8-Jul-03	15-Jul-03	22-Jul-03	21-Aug-03*	17-Oct-03	20-Oct-03	21-Oct-03	22-Oct-03	23-Oct-03	24-Oct-03	28-Oct-03	31-Oct-03	5-Dec-03	9-Dec-03*
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
n-Butylbenzene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
sec-Butylbenzene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
ter-Butylbenzene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Chlorobenzene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Ethylbenzene	300	<30	<1	<1	<0.5	<1	<1	<1	<30	<30	<30	<30	<1	<1	<0.5
Isopropylbenzene		<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<0.5
p-Isopropyltoluene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<50	<5	<5	<0.5	<5	<5	<5	<50	<50	<50	<50	<5	<5	<0.5
Naphthalene		<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<1
n-Propylbenzene		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Toluene	150	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Xylenes, total	1750	<20	<2	<2	<1	<2	<2	<2	<20	<20	<20	<20	<2	<2	<1
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Bromomethane		<100	<10	<10	<1	<10	<10	<10	<100	<100	<100	<100	<10	<10	<1
Carbon Tetrachloride	0.5	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Chloroethane		<300	<30	<30	<0.5	<30	<30	<30	<300	<300	<300	<300	<30	<30	<0.5
Chloroform	100	<30	<3	<3	<0.5	<3	<3	<3	<30	<30	<30	<30	<3	<3	<0.5
Chloromethane		<100	<10	<10	<0.5	<10	<10	<10	<100	<100	<100	<100	<10	<10	0.95
2-Chlorotoluene		<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<0.5
1,1-Dichloroethane	5	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
1,2-Dichloroethane	0.5	<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<0.5
1,1-Dichloroethene	6	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<10	<1	<1	5.4	17.9	15.5	12.6	<10	<10	<10	12.5	12.1	114.0	85.0
trans-1,2-Dichloroethene	10	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
1,2-Dichloropropane	5	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Methylene Chloride	5	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<0.5
Tetrachloroethene	5	297.0	312.0	198.0	190.0	152.0	248.0	242.0	240.0	245.0	289.0	358.0	175.0	104.0	83.0
1,1,1-Trichloroethane	200	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
1,1,2-Trichloroethane	5	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Trichloroethene	5	<10	2.8	2.5	3.1	6.8	61.9	70.1	56.4	71.4	62.0	69.4	59.5	24.2	24.0
Freon-11		<20	<2	<2	<0.5	<2	<2	<2	<20	<20	<20	<20	<2	<2	<0.5
Freon-113	1200	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Freon-114		<30	<3	<3		<3	<3	<3	<30	<30	<30	<30	<3	<3	
Freon-123A		<10	<1	<1		<1	<1	<1	<10	<10	<10	<10	<1	<1	
Vinyl Chloride	0.5	<10	<1	<1	<0.5	<1	<1	<1	<10	<10	<10	<10	<1	<1	<0.5
Total Halogenated Hydrocarbons		297.0	314.8	200.5	198.5	176.7	325.4	324.7	296.4	316.4	351.0	439.9	246.6	242.2	192.95
Total Concentration of VOCs		297.0	314.8	200.5	198.5	176.7	325.4	324.7	296.4	316.4	351.0	439.9	246.6	242.2	192.95

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-2 (Continued)													
		7-Jan-04	13-Jan-04	20-Jan-04	27-Jan-04	3-Feb-04	9-Feb-04	19-Feb-04	24-Feb-04	2-Mar-04	8-Mar-04	16-Mar-04	23-Mar-04	30-Mar-04	6-Apr-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
n-Butylbenzene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
sec-Butylbenzene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
ter-Butylbenzene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Chlorobenzene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Ethylbenzene	300	<30	<30	<150	<30	<150	<150	<150	<150	<100	<1	<1	<500	<150	<150
Isopropylbenzene		<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<1000	<100	<100
p-Isopropyltoluene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Methyl tert-Butyl Ether	13	<50	<50	<250	<50	<250	<250	<250	<250	<500	<5	<5	<2500	<250	<250
Naphthalene		<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<1000	<100	<100
n-Propylbenzene		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Toluene	150	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Xylenes, total	1750	<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<1000	<100	<100
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Bromomethane		<100	<100	<100	<100	<100	<100	<100	<100	<1000	<10	<10	<5000	<100	<100
Carbon Tetrachloride	0.5	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Chloroethane		<300	<300	<1500	<300	<1500	<1500	<1500	<1500	<3000	<30	<30	<15000	<1500	<1500
Chloroform	100	<30	<30	<150	<30	<150	<150	<150	<150	<300	<3	<3	<1500	<150	<150
Chloromethane		<100	<100	<500	<100	<500	<500	<500	<500	<1000	<10	<10	<5000	<500	<500
2-Chlorotoluene		<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<1000	<100	<100
1,1-Dichloroethane	5	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
1,2-Dichloroethane	0.5	<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<1000	<100	<100
1,1-Dichloroethene	6	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
cis-1,2-Dichloroethene	6	302.0	324.0	56.7	86.9	68.5	53.0	52.6	230.0	178.0	166.0	142.0	<500	106.0	<50
trans-1,2-Dichloroethene	10	<10	<10	<50	<10	<50	<50	<50	<50	<100	1.2	<1	<500	<50	<50
1,2-Dichloropropane	5	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Methylene Chloride	5	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
1,1,2,2-Tetrachloroethane	1	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
1,1,1,2-Tetrachloroethane		<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<100	<100	<100
Tetrachloroethene	5	1,070	1,000	1,870	1,810	2,570	3,440	5,620	2,900	5,180	5,480	6,240	5,600	5,780	6,550
1,1,1-Trichloroethane	200	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
1,1,2-Trichloroethane	5	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Trichloroethene	5	163.0	190.0	190.0	181.0	197.0	216.0	242.0	277.0	292.0	286.0	295.0#	<500	275.0	211.0
Freon-11		<20	<20	<100	<20	<100	<100	<100	<100	<200	<2	<2	<100	<100	<100
Freon-113	1200	<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Freon-114		<30	<30	<150	<30	<150	<150	<150	<150	<300	<3	<3	<150	<150	<150
Freon-123A		<10	<10	<50	<10	<50	<50	<50	<50	<100	<1	<1	<500	<50	<50
Vinyl Chloride	0.5	<10	<10	<50	<10	<50	<50	<50	<50	<100	4.6	4.2	<500	<50	<50
Total Halogenated Hydrocarbons		1,535.0	1,514.0	2,116.7	2,077.9	2,835.5	3,709.0	5,914.6	3,407.0	5,650.0	5,937.8	6,681.2	5,600.0	6,161.0	6,761.0
Total Concentration of VOCs		1,535.0	1,514.0	2,116.7	2,077.9	2,835.5	3,709.0	5,914.6	3,407.0	5,650.0	5,937.8	6,681.2	5,600.0	6,161.0	6,761.0

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

= Result out of calibration range

All analyses by LBNL EML unless otherwise noted

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-2 (Continued)													
		13-Apr-04	20-Apr-04	4-May-04	11-May-04	19-May-04	25-May-04*	1-Jun-04	8-Jun-04	15-Jun-04	22-Jun-04	27-Jul-04	3-Aug-04	12-Aug-04	17-Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
n-Butylbenzene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
sec-Butylbenzene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
ter-Butylbenzene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Chlorobenzene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Ethylbenzene	300	<150	<150	<1	<150	<150	<0.5	<150	<150	<150	<150	<1	<30	<150	<150
Isopropylbenzene		<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
p-Isopropyltoluene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Methyl tert-Butyl Ether	13	<250	<250	<5	<250	<250	<0.5	<250	<250	<250	<250	<5	<50	<250	<250
Naphthalene		<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
n-Propylbenzene		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Toluene	150	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Xylenes, total	1750	<100	<100	<2	<100	<100	<1	<100	<100	<100	<100	<2	<20	<100	<100
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Bromomethane		<100	<100	<10	<100	<100	<1	<100	<100	<100	<100	<10	<100	<100	<100
Carbon Tetrachloride	0.5	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Chloroethane		<1500	<1500	<30	<1500	<1500	<0.5	<1500	<1500	<1500	<1500	<30	<300	<1500	<1500
Chloroform	100	<150	<150	<3	<150	<150	<0.5	<150	<150	<150	<150	<3	<30	<150	<150
Chloromethane		<500	<500	<10	<500	<500	<0.5	<500	<500	<500	<500	<10	<100	<500	<500
2-Chlorotoluene		<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
1,1-Dichloroethane	5	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
1,2-Dichloroethane	0.5	<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
1,1-Dichloroethene	6	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
cis-1,2-Dichloroethene	6	<50	<50	154.0	123.0	134.0	47.0	102.0	67.5	<50	54.7	65.4	26.0	65.7	<50
trans-1,2-Dichloroethene	10	<50	<50	3.4	<50	<50	1.2	<50	<50	<50	<50	<1	<10	<50	<50
1,2-Dichloropropane	5	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Methylene Chloride	5	<50	<50	<1	<50	<50	<10	<50	<50	<50	<50	<1	<10	<50	<50
1,1,2,2-Tetrachloroethane	1	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
1,1,1,2-Tetrachloroethane		<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
Tetrachloroethene	5	5,810	4,480	1,820	1,800	1,570	150.0	1,730	2,410	2,850	1,760	1,680	1,720	1,040	2,930
1,1,1-Trichloroethane	200	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
1,1,2-Trichloroethane	5	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Trichloroethene	5	147.0	134.0	208.0	165.0	170.0	62.0	148.0	120.0	69.0	97.3	122.0	59.3	130.0	<50
Freon-11		<100	<100	<2	<100	<100	<0.5	<100	<100	<100	<100	<2	<20	<100	<100
Freon-113	1200	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Freon-114		<150	<150	<3	<150	<150		<150	<150	<150	<150	<3	<30	<150	<150
Freon-123A		<50	<50	<1	<50	<50		<50	<50	<50	<50	<1	<10	<50	<50
Vinyl Chloride	0.5	<50	<50	<1	<50	<50	<0.5	<50	<50	<50	<50	<1	<10	<50	<50
Total Halogenated Hydrocarbons		5,957.0	4,614.0	2,185.4	2,088.0	1,874.0	260.2	1,980.0	2,597.5	2,919.0	1,912.0	1,867.4	1,805.3	1,235.7	2,930.0
Total Concentration of VOCs		5,957.0	4,614.0	2,185.4	2,088.0	1,874.0	260.2	1,980.0	2,597.5	2,919.0	1,912.0	1,867.4	1,805.3	1,235.7	2,930.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71B-03-2 (Continued)				SB71B-03-R10	SB71B-03-R11	SB71B-04-1			SB71H-98-1		
		24-Aug-04	31-Aug-04	8-Sep-04	15-Sep-04	Oct-03#	Oct-03#	Apr-04	7-Sep-04	24-Sep-04	Apr-98	Jun-98	Jul-98
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<150	<150	<150	<150	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<100	<100	<100	<100	<0.5	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	1.9	<1
Methyl tert-Butyl Ether	13	<250	<250	<250	<250	<0.5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<100	<100	<100	<100	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<100	<100	<100	<100	<1	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												1.9	
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Bromomethane		<100	<100	<100	<100	<1	<1	<10	<10	<10	<4	<4	<4
Carbon Tetrachloride	0.5	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Chloroethane		<1500	<1500	<1500	<1500	<0.5	<0.5	<30	<30	<30	<30	<30	<30
Chloroform	100	<150	<150	<150	<150	0.84	<0.5	<3	<3	<3	<1	<1	<1
Chloromethane		<500	<500	<500	<500	<0.5	<0.5	<10	<10	<10	<1	<1	<1
2-Chlorotoluene		<100	<100	<100	<100	<0.5	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	1.7
1,2-Dichloroethane	0.5	<100	<100	<100	<100	<0.5	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<50	<50	<50	<50	<0.5	1.0	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<50	<50	<50	<50	8.5	6.8	27.1	46.0	42.3	<1	<1	<1
trans-1,2-Dichloroethene	10	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<100	<100	<100	<100	<0.5	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	2,840	2,720	1,180	2,560	1,400	13.0	1,000	448.0	378.0	<1	<1	<1
1,1,1-Trichloroethane	200	<50	<50	<50	<50	<0.5	18.0	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<50	<50	<50	<50	24.0	2.7	65.8	170.0	115.0	<1	<1	<1
Freon-11		<100	<100	<100	<100	<0.5	<0.5	<2	<2	<2	<2	<2	<2
Freon-113	1200	<50	<50	<50	<50	<0.5	<0.5	<1	<1	<1	<1	<1	<1
Freon-114		<150	<150	<150	<150			<3	<3	<3	<3	<3	<3
Freon-123A		<50	<50	<50	<50			<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<50	<50	<50	<50	<0.5	<0.5	2.3	5.3	1.5	<1	<1	<1
Total Halogenated Hydrocarbons		2,840.0	2,720.0	1,180.0	2,560.0	1,433.34	41.5	1,095.2	669.3	536.8			1.7
Total Concentration of VOCs		2,840.0	2,720.0	1,180.0	2,560.0	1,433.34	41.5	1,095.2	669.3	536.8		1.9	1.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

= Analysis by Sequoia Analytical

Table 5-2 (Cont'd)
Bevalac Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB71H-98-1 (continued) Dec-98	Mar-99	Oct-99	Mar-00	Oct-00	Mar-01	Oct-01	Mar-02	Oct-02*	Mar-03	Sep-03	Mar-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Bromomethane		<4	<4	<4	<4	<4	<4	<10	<10	<1	<10	<10	<10	<10
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Chloroform	100	<1	<1	1.4	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
Chloromethane		<1	<1	<1	<1	<1	<1	<10	<10	<0.5	<10	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethane	5	2.7	3.0	3.4	3.8	3.1	4.3	2.9	2.8	2.8	2.5	2.4	2.9	2.8
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	1.5	1.4	2.0	1.2	2.1	1.1	<1	1.4	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	1.2	<1	2.0	<1	<1	<1	<1	1.0	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	9.0	29.2	1.4	3.6
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	1.6	<1	<1	<1
Freon-11		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-114		<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3
Freon-123A		<1	1.1	<1	<1	1.3	<1	<1	<1		<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2.7	6.8	6.2	7.8	5.6	6.4	4.0	63.4	60.6	55.4	31.6	4.3	6.4
Total Concentration of VOCs		2.7	6.8	6.2	7.8	5.6	6.4	4.0	63.4	60.6	55.4	31.6	4.3	6.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-3
Bevalac Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW51L-99-1													
		20-Nov-03	06-Jan-04	20-Jan-04	26-Jan-04	03-Feb-04	17-Feb-04	01-Mar-04	3-Mar-04*	25-Mar-04	06-Apr-04	20-Apr-04	06-May-04	18-May-04	02-Jun-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	4.1	<1	<1	<1	3.8	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	9.8	32.6	5.6	4.3	4.9	43.7	10.9	5.4	6.3	5.0	4.7	7.2	5.5	6.2
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	4.3	131.0	2.3	1.6	1.8	111.0	4.1	5.9	2.0	1.6	1.4	1.5	2.2	1.7
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	1.1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	33.0	98.3	12.6	9.2	13.2	603.0	36.9	18.0	14.7	8.4	8.3	16.1	9.5	11.8
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	1.1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		47.1	266.0	20.5	15.1	19.9	763.7	51.9	29.3	23.0	15.0	14.4	24.8	17.2	19.7
Total Concentration of VOCs		47.1	266.0	20.5	15.1	19.9	763.7	51.9	29.3	23.0	15.0	14.4	24.8	17.2	19.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 5-3 (Cont'd)
Bevalac Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW51L-99-1 (continued)							EW51L-00-1					
		24-Jun-04	08-Jul-04	26-Jul-04	11-Aug-04	23-Aug-04	13-Sep-04	24-Sep-04	20-Nov-03	06-Jan-04	20-Jan-04	03-Feb-04	17-Feb-04	01-Mar-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	22.2	34.5	<1	4.8	2.4
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	13.4	13.3	20.8	7.9	5.1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	27.0	25.5	20.7	14.4	16.9	22.7
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	1.8	6.4	8.2	7.1	3.4	4.0
cis-1,2-Dichloroethene	6	7.9	11.7	11.9	7.6	9.9	13.7	11.9	174.0	421.0	325.0	376.0	345.0	352.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	8.7	7.2	3.0	2.0	1.7
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	2.1	3.6	4.9	3.3	3.6	4.8	4.6	9.3	47.2	49.3	25.1	31.0	28.2
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	11.6	9.6	5.0	4.4	3.4
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	16.3	30.6	49.2	22.5	25.8	37.5	29.8	348.0	2,740	2,500	1,500	1,550	1,230
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	57.9	31.9	35.6	19.1	8.2	6.0
Total Halogenated Hydrocarbons		26.3	45.9	66.0	33.4	39.3	56.0	46.3	618.0	3,327.9	3,003.4	1,970.5	1,973.6	1,655.5
Total Concentration of VOCs		26.3	45.9	66.0	33.4	39.3	56.0	46.3	618.0	3,327.9	3,003.4	1,970.5	1,973.6	1,655.5

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 5-3 (Cont'd)
Bevalac Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW51L-00-1 (continued)													
		3-Mar-04*	25-Mar-04	06-Apr-04	20-Apr-04	06-May-04	18-May-04	02-Jun-04	24-Jun-04	08-Jul-04	26-Jul-04	11-Aug-04	23-Aug-04	13-Sep-04	24-Sep-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
n-Butylbenzene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
sec-Butylbenzene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
ter-Butylbenzene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Chlorobenzene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Ethylbenzene	700	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Isopropylbenzene		<0.5	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
p-Isopropyltoluene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Methyl tert-Butyl Ether	13	<0.5	<5	<50	<5	<5	<50	<250	<5	<50	<5	<50	<50	<5	<5
Naphthalene		<0.5	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
n-Propylbenzene		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Toluene	150	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Xylenes, total	1750	<1	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Bromoform		<0.5	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
Carbon Tetrachloride	0.5	<0.5	4.7	<10	2.5	1.3	<10	<50	<1	<10	<1	<10	<10	<1	<1
Chloromethane		<0.5	<10	<100	<10	<10	<100	<10	<10	<100	<10	<100	<100	<10	<10
Chloroform	100	4.8	7.0	<30	5.1	<3	<30	<150	<3	<30	<3	<30	<30	<3	<3
1,1-Dichloroethane	5	8.0	17.0	17.8	22.4	27.9	28.4	<50	42.8	39.1	27.9	48.0	38.0	33.3	37.5
1,2-Dichloroethane	0.5	<0.5	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
1,1-Dichloroethene	6	3.6	3.9	<10	2.7	<1	<10	<50	3.7	<10	4.3	<10	<10	4.2	3.5
cis-1,2-Dichloroethene	6	410.0	263.0	1,560	534.0	392.0	332.0	667.0	526.0	340.0	356.0	1,360	385.0	305.0	262.0
trans-1,2-Dichloroethene	10	4.5	2.4	<10	1.2	<1	<10	<50	<1	<10	7.1	<10	<10	2.6	<1
1,2-Dichloropropane	5	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
1,1,2,2-Tetrachloroethane	1	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<2	<20	<2	<2	<20	<100	<2	<20	<2	<20	<20	<2	<2
Tetrachloroethene	5	15.0	28.4	14.1	28.1	18.1	16.8	<50	16.1	15.7	17.0	11.0	16.3	12.9	13.1
1,1,1-Trichloroethane	200	3.4	4.2	<10	4.0	<1	<10	<50	1.6	<10	1.1	<10	<10	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Trichloroethene	5	590.0	1,300	311.0	1,320	853.0	707.0	794.0	523.0	488.0	470.0	122.0	388.0	332.0	384.0
Freon-113	1200	<0.5	<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Freon-123A			<1	<10	<1	<1	<10	<50	<1	<10	<1	<10	<10	<1	<1
Vinyl Chloride	0.5	6.6	11.1	19.4	7.1	5.0	<10	<50	12.1	<10	12.5	103.0	19.4	10.0	4.9
Total Halogenated Hydrocarbons		1,045.9	1,641.7	1,922.3	1,927.1	1,297.3	1,084.2	1,461.0	1,125.3	882.8	895.9	1,644.0	846.7	700.0	705.0
Total Concentration of VOCs		1,045.9	1,641.7	1,922.3	1,927.1	1,297.3	1,084.2	1,461.0	1,125.3	882.8	895.9	1,644.0	846.7	700.0	705.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 5-3 (Cont'd)
Bevalac Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW64-00-1[T]										
		Dec-03	Jan-04	Feb-04	Mar-04*	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
n-Butylbenzene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
sec-Butylbenzene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
ter-Butylbenzene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Chlorobenzene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Ethylbenzene	700	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Isopropylbenzene		<2	<20	<200	<0.5	<20	<20	<20	<20	<200	<20	<2
p-Isopropyltoluene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Methyl tert-Butyl Ether	13	<5	<50	<500	<0.5	<50	<50	<50	<50	<500	<50	<5
Naphthalene		<2	<20	<200	<0.5	<20	<20	<20	<20	<200	<20	<2
n-Propylbenzene		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Toluene	150	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Xylenes, total	1750	<2	<20	<200	<1	<20	<20	<20	<20	<200	<20	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Bromoform		<2	<20	<200	<0.5	<20	<20	<20	<20	<200	<20	<2
Carbon Tetrachloride	0.5	5.1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	1.7
Chloromethane		<10	<100	<1000	<0.5	<100	<100	<100	<100	<1000	<100	<10
Chloroform	100	<3	<30	<300	<0.5	<30	<30	<30	<30	<300	<30	<3
1,1-Dichloroethane	5	76.0	714.0	658.0	540.0	554.0	1,220	541.0	236.0	149.0	222.0	109.0
1,2-Dichloroethane	0.5	<2	<20	<200	4.8	<20	<20	<20	<20	<200	<20	<2
1,1-Dichloroethene	6	17.1	98.9	<100	68.0	82.6	192.0	93.7	22.5	<100	49.9	18.6
cis-1,2-Dichloroethene	6	<1	<10	<100	3.3	<10	<10	<10	<10	<100	<10	<1
trans-1,2-Dichloroethene	10	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
1,2-Dichloropropane	5	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Methylene Chloride	5	<1	<10	<100	<1	<10	<10	<10	<10	<100	<10	<1
1,1,2,2-Tetrachloroethane	1	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
1,1,1,2-Tetrachloroethane		<2	<20	<200	<0.5	<20	<20	<20	<20	<200	<20	<2
Tetrachloroethene	5	16.0	27.1	<100	31.0	44.2	86.3	49.3	10.9	510.0	19.2	17.5
1,1,1-Trichloroethane	200	35.0	26.9	<100	40.0	14.6	22.0	29.5	20.7	<100	<10	12.0
1,1,2-Trichloroethane	5	<1	<10	<100	0.98	<10	<10	<10	<10	<100	<10	<1
Trichloroethene	5	13.8	51.9	<100	55.0	84.1	175.0	80.4	21.1	138.0	31.4	20.1
Freon-113	1200	<1	<10	<100	<0.5	<10	<10	<10	<10	<100	<10	<1
Freon-123A		<1	<10	<100		<10	<10	<10	<10	<100	<10	<1
Vinyl Chloride	0.5	<1	<10	<100	0.61	<10	<10	<10	<10	<100	<10	<1
Total Halogenated Hydrocarbons		163.0	918.8	658.0	743.69	779.5	1,695.3	793.9	311.2	797.0	322.5	178.9
Total Concentration of VOCs		163.0	918.8	658.0	743.69	779.5	1,695.3	793.9	311.2	797.0	322.5	178.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
[T]Treatment system influent samples

Table 5-3 (Cont'd)
Bevalac Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW64-03-1[T]										
		Dec-03	Jan-04	Feb-04	Feb-04	Mar-04*	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	6.1	<3	<3	1.3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	55.4	91.7	328.0	60.2	190.0	114.0	81.9	222.0	318.0	155.0	186.0
1,2-Dichloroethane	0.5	<2	<2	2.6	<2	2.1	<2	<2	3.6	2.2	2.2	2.9
1,1-Dichloroethene	6	2.7	4.4	15.7	3.3	15.0	5.7	3.7	13.4	6.2	6.7	7.1
cis-1,2-Dichloroethene	6	<1	<1	2.5	<1	1.5	<1	<1	2.0	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	2.8	<1	2.5	1.2	1.8	4.0	1.4	2.7	2.3
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	2.8	4.4	19.3	4.1	16.0	7.4	5.6	23.6	9.2	11.4	11.7
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		60.9	106.6	372.0	67.6	228.4	128.3	93.0	268.6	337.0	178.0	210.0
Total Concentration of VOCs		60.9	106.6	372.0	67.6	228.4	128.3	93.0	268.6	337.0	178.0	210.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
[T]Treatment system influent samples

Table 5-4
Bevalac Area Sampling Results from Other Locations
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(Concentrations in µg/L)

Constituent	MCL	SI3-63 Jul-04
Aromatic or Non-Halogenated Hydrocarbons		
Benzene	1	<1
n-Butylbenzene		<1
sec-Butylbenzene		<1
ter-Butylbenzene		<1
Chlorobenzene		<1
Ethylbenzene	700	<1
Isopropylbenzene		<2
p-Isopropyltoluene		<1
Methyl tert-Butyl Ether	13	<5
Naphthalene		<2
n-Propylbenzene		<1
Toluene	150	<1
Xylenes, total	1750	<2
Total Aromatic Hydrocarbons		
Halogenated Non-Aromatic Hydrocarbons		
Bromodichloromethane		<1
Carbon Tetrachloride	0.5	<1
Chloroform	100	<3
Chloroethane		<30
1,1-Dichloroethane	5	1.9
1,2-Dichloroethane	0.5	<2
1,1-Dichloroethene	6	<1
cis-1,2-Dichloroethene	6	<1
trans-1,2-Dichloroethene	10	<1
Methylene Chloride	5	<1
1,1,1,2-Tetrachloroethane		<2
Tetrachloroethene	5	<1
1,1,1-Trichloroethane	200	<1
1,1,2-Trichloroethane	5	<1
Trichloroethene	5	1.6
Freon-113	1200	<1
Freon-11		<2
Vinyl Chloride	0.5	<1
Total Halogenated Hydrocarbons		3.5
Total Concentration of VOCs		3.5

MCL = Maximum contaminant level for drinking water

Analysis by LBNL EML | < | = Less than Quantitation Lim

Table 6-1
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	4-96-2 (well is on annual sampling)																	
		Jul-96	Aug-96	(D)*	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99*	Apr-99	Aug-99	Nov-99	Feb-00	May-00
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	0.54	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														0.54					
Total Concentration of VOCs														0.54					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	4-96-2 (continued)										
		Aug-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Feb-02	May-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	1.0
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												1.0
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons												
Total Concentration of VOCs												1.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	5-93-10 (well is on annual sampling)																											
		Oct-93	(D)*	Mar-94	Jun-94	Aug-94	Nov-94*	Jan-95*	May-95*	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Feb-01	Aug-01	Feb-02	Sep-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	20.8	24.0	31.9	24.1	16.7	26.0	18.0	11.0	15.2	28.2	37.8	24.2	19.0	20.0	19.0	17.3	19.3	10.2	8.6	8.1	6.9	9.0	7.6	9.6	9.3	8.3	6.7	5.0
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	3.4	3.9	3.2	1.6	1.4	2.4	1.3	1.1	3.5	5.6	2.1	2.2	2.7	2.8	1.6	1.8	1.5	1.5	1.4	2.5	1.7	2.2	1.6	2.9	1.8	2.1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	1.1	2.3	<1	<1	0.84	1.1	0.79	6.1	1.3	<1	3.4	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	2.2	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	24.8	34.0	26.8	13.9	20.2	18.0	12.0	11.0	28.8	38.6	17.3	18.2	18.9	31.0	18.2	24.8	19.3	18.8	16.4	27.5	16.1	19.5	16.7	25.5	15.4	20.1	12.4	5.4
Freon-113	1200	<1		<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		49.0	63.0	64.2	39.6	38.3	47.24	32.4	23.89	53.6	73.7	57.2	48.0	40.6	55.0	38.8	43.9	40.1	30.5	26.4	38.1	26.9	30.7	25.9	38.0	26.5	30.5	19.1	10.4
Total Concentration of VOCs		49.0	63.0	64.2	39.6	38.3	47.24	32.4	23.89	53.6	73.7	57.2	48.0	40.6	55.0	38.8	43.9	40.1	30.5	26.4	38.1	26.9	30.7	25.9	38.0	26.5	30.5	19.1	10.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	6-92-17 (well is on annual sampling)																																
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	(D)	Aug-94	Dec-94*	Feb-95*	Jun-95*	Aug-95	Nov-95	Mar-96	(D)*	Jun-96	Aug-96	Dec-96*	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Mar-02	Sep-02	Aug-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																																		
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<0.5	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																															1.5			
Halogenated Non-Aromatic Hydrocarbons																																		
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	7.7	6.2	6.6	5.1	4.7	6.9	6.5	7.6	3.6	7.1	7.3	6.8	8.5	7.1	15.7	7.5	9.4	8.0	7.7	11.4	7.8	3.6	6.1	5.6	7.8	7.7	8.5	8.7	7.0	6.1	7.2	5.0	6.7
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	1.3	1.7	1.2	<1	1.3	<1	1.0	<1	0.66	0.86	0.82	1.2	<1	<1	<0.5	<1	<1	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethen	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	2.4	2.5	1.4	<1	3.3	2.1	2.3	2.6	1.5	1.9	1.4	1.3	3.0	<1	0.93	1.1	<1	1.7	1.2	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.54	<1
1,1,1-Trichloroethane	200	<5	1.1	1.5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	0.51	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	29.0	29.7	32.8	26.6	25.2	32.0	21.0	24.3	34.7	30.0	27.0	24.0	28.4	24.9	22.2	24.0	18.0	17.1	21.0	24.4	20.7	9.7	15.3	14.5	15.9	14.0	16.8	18.0	17.0	14.2	19.8	12.0	15.2
Freon-113	1200	<0.6	<1	<1	<1	<1	9.3	3.3	4.1	<1	<0.5	0.54•	<0.5	<5	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbo		36.7	40.7	45.1	34.3	29.9	52.8	32.9	39.3	40.9	39.26	37.60	33.53	39.4	35.0	37.9	32.43	28.5	25.1	30.92	37.0	29.5	13.3	21.4	20.1	23.7	21.7	25.3	26.7	24.0	20.3	27.0	17.54	21.9
Total Concentration of VOCs		36.7	40.7	45.1	34.3	29.9	52.8	32.9	39.3	40.9	39.26	37.60	33.53	39.4	35.0	37.9	32.43	28.5	25.1	30.92	37.0	29.5	13.3	21.4	20.1	23.7	21.7	25.3	26.7	24.0	21.8	27.0	17.54	21.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
• = Compound detected in method blank, 1.1µg/L

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	6-93-4 (well is on semi-annual sampling)																			
		Oct-93	(D)*	Mar-94	(D)*	Jun-94	Aug-94	Sep-94	Dec-94*	(D)*	Feb-95*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	Aug-97	Nov-97
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	0.9	3.5	1.7	1.9	4.6	<1	3.6	3.6	2.2	2.5	3.1	2.9	3.5	<2	<1	2.0	<1	4.1	3.8
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	0.55	0.58	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<1	<1	0.75	0.55	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	0.9	<1	<0.5	<1	1.1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			1.8	3.5	1.7	1.9	5.7		4.9	4.73	2.2	2.5	3.1	2.9	3.5			2.0		4.1	3.8
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane	100	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	1.8	2.9	<1	<0.5	1.7	<1	<1	0.69	0.68	<0.5	0.96	<1	1.1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2
Dibromomethane		<1	<0.5		<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	0.7	4.9	0.8	<1	<1	<1	0.94	0.92	<0.5	0.76	1.0	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	4.1	3.7	5.9	1.5	3.3	1.7	<1	2.5	2.3	1.0	2.5	3.4	3.7	1.4	1.9	2.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	1.8	1.8	5.2	1.9	2.6	2.6	<1	3.0	2.9	2.0	1.7	2.9	2.5	2.9	3.1	3.5	4.5	5.8	1.7	1.4
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1		<1		<1	<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1		<1		<1	<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2
Tetrachloroethene	5	10.3	11.0	11.0	5.2	9.2	7.9	<1	5.7	5.9	2.9	13.0	14.2	11.4	4.9	6.8	47.8	2.6	2.3	9.5	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	21.4	23.0	17.9	11.0	18.8	13.5	1.5	14.0	14.0	6.1	16.0	15.0	23.9	10.9	9.1	15.6	3.5	1.7	3.3	1.1
Freon-113	1200	<1		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	4.2	2.4	13.7	4.9	3.3	1.8	<1	7.0	6.9	6.9	2.4	9.0	5.6	14.6	7.7	6.7	9.4	2.6	6.9	9.4
Total Halogenated Hydrocarbons		43.6	45.5	58.6	25.3	38.9	27.5	1.5	33.83	33.60	18.9	37.3	45.5	48.2	34.7	28.6	76.1	20.0	12.4	21.4	11.9
Total Concentration of VOCs		43.6	47.3	62.1	27.0	40.8	33.2	1.5	38.73	38.33	21.1	39.8	48.6	51.1	38.2	28.6	76.1	22.0	12.4	25.5	15.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	6-93-4 (Cont'd)													
		Feb-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Feb-01	Mar-01	Jun-01	Feb-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	3.2	<1	3.7	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			3.2		3.7	1.0									
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<3	<3	<3	<3	10.6	<3	<3	<3	<3
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	2.4	21.6	1.4	6.8	<1	<1	<1	<1	<1	3.8	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	8.3	<1	1.8	<1	<1	<1	<1	<1	1.9	<1
cis-1,2-Dichloroethene	6	<1	1.0	2.7	<1	19.2	<1	3.4	<1	<1	1.2	<1	<1	2.0	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	1.1	<1	1.8	<1	19.3	1.4	5.3	1.2	3.5	1.9	<1	<1	10.9	4.6
1,1,1-Trichloroethane	200	<1	<1	<1	<1	8.4	<1	<1	12.9	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	4.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	1.0	1.1	3.3	1.7	35.7	2.8	13.2	1.3	6.6	5.1	<1	<1	10.5	3.9
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	4.8	8.7	6.3	1.3	6.9	<1	1.3	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		6.9	10.8	14.1	5.4	123.4	5.6	31.8	15.4	10.1	21.6			29.1	8.5
Total Concentration of VOCs		6.9	14.0	14.1	9.1	124.4	5.6	31.8	15.4	10.1	21.6			29.1	8.5

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	6-95-14 (Samples taken at treatment system)																	
		Sep-95	(S)*	Dec-95	(D)*	Mar-96	Jun-96	Jun-96	Aug-96	Dec-96	Mar-97	Apr-97	Aug-97	Nov-97	Mar-98	May-98	Sep-98	Feb-99	May-99
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<2	<0.5	<2	2.6	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	1.1	2.5	2.0	<2	5.2	<2	<1	1.2	1.3	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	1.6	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<2	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<1	<2	<0.5	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<1	2.1	1.6	<1	2.4	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	2.1	<1	0.73	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	7.0	<1	5.2	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	1.2	1.0	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		13.2	8.3	12.9	6.7	<2	4.8	3.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	2.3	1.5	1.1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		13.2	20.8	21.8	18.3		15.0	3.6		1.2	1.3								
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane	100	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	2.8	3.3	<1	0.89	2.5	<1	5.7	7.0	<1	<1	1.3	1.1	1.4	11.4	4.4	<1	12.8	15.6
Dibromochloromethane		<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.2	1.1	<1	<0.5	<1	1.0	3.6	2.1	<1	<1	<1	<1	<1	1.8	<1	<1	1.2	1.1
cis-1,2-Dichloroethene	6	1.5	1.5	1.0	0.91	<1	1.9	1.4	1.3	<1	<1	1.1	4.0	2.3	<1	1.8	1.2	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	1.3	2.1	1.7	1.2	<1	26.3	5.3	10.2	5.0	5.4	1.9	1.1	5.2	1.4	<1	8.7	7.4
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	8.1	8.1	4.1	4.0	<1	3.9	16.3	10.9	6.2	5.6	6.4	4.2	4.2	15.6	8.0	3.2	13.7	11.5
Freon-113	1200	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	5.4	6.5	5.6	9.7	<1	7.6	<1	<1	3.7	8.0	5.4	3.3	2.6	<1	6.3	1.7	<1	<1
Total Halogenated Hydrocarbons		19.0	21.8	12.8	17.2	3.7	14.4	53.3	26.6	20.1	18.6	19.6	14.5	11.6	34.0	21.9	6.1	36.4	35.6
Total Concentration of VOCs		32.2	42.6	34.6	35.5	3.7	29.4	56.9	26.6	21.3	19.9	19.6	14.5	11.6	34.0	21.9	6.1	36.4	35.6

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

(D) = Duplicate sample

(S) = Split sample

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Wells

Constituent	MCL	6-95-14 (continued)																	
		Dec-99	Feb-00	May-00	Jul-00	Nov-00	Feb-01	May-01	Sep-01	Feb-02	Apr-02	May-02	Jul-02	Sep-02	Nov-02[T]	May-03[T]	Aug-03[T]	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	20.3	12.2	13.9	10.3	16.0	15.9	<3	8.1	15.7	14.4	19.8	8.8	14.9	13.1	15.8	23.0	17.8	26.6
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	1.7	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.56	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	2.9	5.8	5.6	7.0	2.4	3.1	3.0	1.3	3.5	4.1	2.2	1.9	1.3	1.6	2.2	5.1	2.6	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	17.8	10.7	9.7	9.5	10.2	10.3	3.2	7.3	8.7	9.2	9.8	4.6	9.8	11.0	6.7	6.9	2.1	1.7
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		42.7	28.7	29.2	26.8	28.6	30.4	6.2	16.7	27.9	27.7	31.8	15.3	26.0	25.7	24.7	35.56	22.5	28.3
Total Concentration of VOCs		42.7	28.7	29.2	26.8	28.6	30.4	6.2	16.7	27.9	27.7	31.8	15.3	26.0	25.7	24.7	35.56	22.5	28.3

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

[T]Sample taken from Treatment System Influent Line

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW7-1 (well is on annual sampling) Jan-93	Feb-93	May-93	Aug-93	Dec-93*†	Feb-94	Jun-94	Aug-94†	Sep-94†	Dec-94*	Feb-95*	Mar-95*	May-95*	Aug-95	Dec-95	Mar-96	Jun-96	Dec-96*	Mar-97	Jun-97	Jun-98	Jun-99	Mar-01	Feb-03	Mar-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	1.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.5																								
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane	100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	0.89	<1	<1	<1	<1	<3	<3	<3
Dibromochloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	14.4	4.6	5.2	2.4	3.9	2.7	<1	<1	<1	<0.5	0.92	1.2	1.1	1.2	1.1	2.5	<1	1.3	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	11.5	1.6	<1	<1	1.6	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	141.2	80.8	61.1	21.7	71.0	68.6	46.0	7.4	<1	4.3	18.0	39.0	19.0	19.0	21.8	68.1	15.8	39.0	13.3	8.7	6.4	8.3	3.6	<1	4.3
trans-1,2-Dichloroethene	10	12.6	2.0	<1	<1	2.1	<1	<1	<1	<1	<0.5	<0.5	0.67	<0.5	<1	<1	1.0	<1	0.66	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1		<1	<1	<1	<1					<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1		<1	<1	<1	<1					<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	177.2	224.4	141.2	92.4	120.0	128.7	13.7	43.4	79.2	17.0	43.0	77.0	51.0	58.6	52.8	119.0	63.1	130.0	122.0	71.3	29.8	35.2	17.4	11.9	24.8
1,1,1-Trichloroethane	200	<1	<1	<1	<1	0.62	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	93.3	91.5	59.7	28.3	60.0	62.5	<1	14.4	22.1	3.9	17.0	29.0	19.0	18.1	18.1	45.2	13.9	50.0	25.6	17.4	10.7	14.1	8.4	3.6	14.4
Freon-113	1200	<1	<1	<1	<1		<1	<1	<1	219.0	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	16.6	13.4	6.7	<1	6.3	5.6	<1	<1	<1	<0.5	0.77	1.7	0.51	<1	<1	5.3	<1	1.4	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		466.8	418.3	273.9	144.8	265.5	268.1	59.7	65.2	320.3	25.2	79.69	148.57	90.61	96.9	93.8	241.1	92.8	225.85	160.9	97.4	46.9	57.6	29.4	15.5	43.5
Total Concentration of VOCs		468.3	418.3	273.9	144.8	265.5	268.1	59.7	65.2	320.3	25.2	79.69	148.57	90.61	96.9	93.8	241.1	92.8	225.85	160.9	97.4	46.9	57.6	29.4	15.5	43.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-92-16 (well is on semi-annual sampling)																						
		Dec-92	Mar-93	May-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94*	Aug-94	Sep-94	Dec-94*	Feb-95*	May-95*	May-95*	Aug-95	Dec-95	Mar-96	(D)*	Aug-96	Dec-96	Mar-97	Aug-97	Feb-98
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<5	<1	1.7	1.8	<1	1.8	1.1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
n-Butylbenzene		5.5	7.1	<1	<1	<1	15.2	<1	20,000	<1	<1	1.0	<0.5	<3	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1
sec-Butylbenzene		12.0	12.2	6.2	6.5	<1	<1	<1	6900	<1	<1	0.74	0.63	3.0	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1
ter-Butylbenzene		<5	4.0	9.4	11.5	7.1	16.1	4.4	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1
Ethylbenzene	300	<5	2.6	4.5	4.8	1.1	1.8	3.2	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<20	<2	<0.5	<30	<30	<3	<3	<3
Isopropylbenzene		<5	2.2	7.9	9.8	2.2	8.4	4.5	<3000	<1	<1	0.53	0.51	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
p-Isopropyltoluene		13.2	8.7	16.1	<1	9.0	19.9	7.4	18,000	<1	12.0	0.73	<0.5	4.3	<0.5	<1	<20	<1	<0.5	66.1	<10	<1	<1	<1
Naphthalene		62.1	25.3	56.6	60.4	22.7	91.2	33.1	46,000	1.1	14.0	4.4	2.6	26.0	0.57	<1	<10	<1	2.2	<20	<20	<2	<2	<2
n-Propylbenzene		<5	3.7	10.5	13.8	5.8	15.3	4.7	4400	<1	<1	0.54	<0.5	3.0	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,2,3-Trichlorobenzene		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
1,2,4-Trichlorobenzene	5	<5	31.1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	0.76	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,2,4-Trimethylbenzene		48.4	31.1	52.3	64.1	31.6	<1	30.7	25,000	1.1	40.0	2.6	1.7	18.0	<0.5	<1	<20	<2	<0.5	133.0	<10	<1	<1	<1
1,3,5-Trimethylbenzene		18.4	7.8	26.9	20.9	9.7	21.4	10.7	9200	<1	<1	1.3	0.82	11.0	<0.5	<1	<20	<2	<0.5	110.0	<10	<1	1.2	<1
Xylenes, total	1750	9.1	<1	4.7	1.3	<1	6.3	2.5	<6000	<1	<1	<1	<1	<6	<1	<1	<20	<2	<1	<20	<20	<2	<2	<2
Total Aromatic Hydrocarbons		168.7	135.8	196.8	194.9	89.2	197.4	102.3	129,500	2.2	66.0	11.84	6.26	65.3	1.33				2.2	309.1			1.2	
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	0.58	<3	0.53	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Chloroform	100	7.9	3.0	4.2	4.7	4.5	4.5	2.9	<3000	<1	<1	3.8	4.8	3.2	4.9	<1	<10	4.1	1.9	<10	<10	3.0	3.9	4.5
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
Chloromethane		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,2-Dibromo-3-chloropropane		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
1,1-Dichloroethane	5	<5	<1	<1	<1	3.0	<1	<1	<3000	<1	<1	<0.5	0.51	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	1.7	2.7	2.0	1.7	<1	<3000	<1	<1	2.6	3.7	<3	3.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
cis-1,2-Dichloroethene	6	14.9	3.1	11.8	13.4	12.5	11.0	2.6	<3000	<1	<1	<0.5	1.9	<3	1.2	<1	<10	<1	0.63	<10	<10	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1		<1	<1					<1	<10	<1	<0.5	<10	<10	<1	<1	<1
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1		<1	<1					<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<1	<1	<6	<1	<1	<10	<1	<1	<10	<10	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<1	<1	<6	<1	<1	<10	<1	<1	<10	<10	<1	<1	<1
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<20	<20	<2	<2	<2
Tetrachloroethene	5	<5	2.4	1.7	1.5	1.9	32.1	1.5	<3000	<1	<1	1.3	2.3	<3	6.3	<1	<10	23.0	24.0	<10	<10	<1	23.5	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	1.3	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Trichloroethene	5	12.8	7.5	12.5	15.1	13.4	10.7	7.1	<3000	<1	<1	15.0	20.0	8.8	21.0	<1	<10	16.4	17.0	<10	<10	4.1	11.3	4.6
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<3000	<1	<1	<0.5	<0.5	<3	<0.5	<5	<10	<1	<0.5	<10	<10	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	4.7	6.8	4.9	<1	1.5	<3000	<1	<1	1.6	1.1	<3	0.78	<1	<10	<1	<0.5	<10	<10	<1	<1	<1
Total Halogenated Hydrocarbons		35.6	16.0	36.6	44.2	42.2	60.0	15.6				25.60	34.89	12.0	38.21			43.5	43.53			7.1	38.7	9.1
Total Concentration of VOCs		204.3	151.8	233.4	239.1	131.4	257.4	117.9	129,500	2.2	66.0	37.44	41.15	77.3	39.54			43.5	45.73	309.1		7.1	39.9	9.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-92-16 (continued)																				
		Sep-98	Nov-98	Feb-99	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Aug-01	Nov-01	Jan-02	May-02	Jul-02	Sep-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.4	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	9.4	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	11.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.5	38.6	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.7	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.7	<2	<2	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	9.4	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	8.7	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		3.4												9.1	92.5							
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	5.1	9.4	6.9	8.9	16.7	13.7	7.6	8.6	13.6	12.4	10.2	10.4	10.5	9.5	13.5	10.0	13.1	14.3	19.0	14.1	25.7
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloromethane		<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.3	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.0	46.1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	3.5	<1	<1	<1	2.7	1.3	1.6	<1	1.2	<1	<1	1.2	1.3	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	4.8	9.3	6.5	6.3	8.3	9.7	<1	5.5	8.9	6.9	4.5	6.7	5.8	5.2	7.5	6.1	9.9	5.6	3.0	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		9.9	18.7	13.4	15.2	25.0	28.0	7.6	14.1	24.5	22.0	16.0	18.7	23.3	72.4	21.0	16.1	24.2	21.2	22.0	14.1	25.7
Total Concentration of VOCs		13.3	18.7	13.4	15.2	25.0	28.0	7.6	14.1	24.5	22.0	16.0	18.7	32.4	164.9	21.0	16.1	24.2	21.2	22.0	14.1	25.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-92-19 (well is on semi-annual sampling) Dec-92	Feb-93	May-93	Aug-93	Nov-93	Mar-94	(D)*	Jun-94	Aug-94	Sep-94	Nov-94*	Feb-95*	Mar-95*	May-95*	Aug-95	(D)*	Sep-95	Nov-95	Mar-96	Jun-96	Sep-96*	(D)	Nov-96	Mar-97	Apr-97	Jun-97	Sep-97	Dec-97	(D)
Aromatic or Non-Halogenated Hydrocarbons																														
Benzene	1	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	Trace	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Bromobenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<15	<3	<15	<3	<30	<3	<3
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<10	<2	<10	<2	<20	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<10	<1	<1	2.8	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<10	<2	<10	<2	<20	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
Toluene	150	<5	<1	<1	2.6	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2	<10	<0.5	<2	<5	<1	<5	<1	<10	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<20	<1	<1	<1	<50	<1	<1	<1	<1	<1	<2	<2	<2	<10	<1	<2	<10	<2	<10	<2	<20	<2	<2
Total Aromatic Hydrocarbons					2.6						2.8																			
Halogenated Non-Aromatic Hydrocarbons																														
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Carbon Tetrachloride	0.5	9.7	17.5	5.0	3.8	8.1	2.4	<10	<1	3.6	2.0	<30	18.0	6.4	4.7	5.8	5.3	5.1	4.4	4.7	<5	4.0	2.4	<5	<1	<5	3.2	<10	<1	<1
Chloroform	100	13.0	4.1	3.4	2.8	4.1	2.0	<10	<1	1.3	1.5	<30	5.9	2.8	2.2	3.0	2.9	<2	2.9	6.5	<5	2.7	<1	<5	<1	<5	2.6	<10	<1	<1
Dibromochloromethane		<5	<1	<1	2.3	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<10	<2	<10	<2	<20	<2	<2
Dibromomethane		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
1,1-Dichloroethane	5	13.9	9.9	17.2	11.7	7.1	13.1	<10	7.5	4.4	2.4	<30	6.6	4.8	6.7	<1	5.4	8.0	4.4	14.5	6.5	3.4	2.9	<5	<1	5.2	1.9	<10	5.1	4.9
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<10	<2	<10	<2	<20	<2	<2
1,1-Dichloroethene	6	27.6	12.8	18.9	10.3	10.0	10.9	10.0	4.2	4.9	2.8	<30	19.0	7.2	6.2	9.6	6.6	9.5	6.5	11.5	7.1	5.3	3.7	<5	<1	5.2	2.7	<10	3.7	3.5
cis-1,2-Dichloroethene	6	162.3	295.0	342.9	281.0	234.9	304.0	340	190.7	198.9	122.2	160.0	160.0	170.0	180.0	242.0	200	259.0	194.0	385.0	242.0	150.0	143	126.0	212.0	248.0	110.0	110.0	211.0	195.0
trans-1,2-Dichloroethene	10	16.9	8.6	11.0	3.4	7.0	6.0	<10	4.1	5.9	3.5	<30	6.2	5.8	75.0	15.7	13.0	6.5	8.8	7.9	6.2	10.0	8.8	5.8	7.2	7.0	9.6	<10	6.4	6.2
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1		<1	<1	<1					<1		<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1		<1	<1	<1					<1		<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<20	<1	<1	<1	<50	<1	<1	<1	<1	<1	<2	<1	<1	<5	<1	<1	<5	<1	<5	<1	<10	<1	<1
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<10	<2	<10	<2	<20	<2	<2
Tetrachloroethene	5	539.9	1217	782.8	743.5	864.9	1,123	1,000	444.5	1,005	405.2	790.0	990.0	670.0	840.0	1080	1000	1300	1030	1570	1510	940.0	1130	648.0	749.0	1,230	664.0	713.0	1,080	924.0
1,1,1-Trichloroethane	200	<5	1.2	1.7	1.2	1.0	1.4	<10	<1	<1	<1	<30	0.87	<0.5	0.63	<1	<0.5	<2	<1	<1	<5	1.4	<1	<5	<1	<5	<1	<10	1.2	1.2
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<30	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Trichloroethene	5	309.4	469.9	298.6	278.3	350.8	487.6	410	173.6	366.6	258.3	400.0	400.0	280.0	300.0	405.0	430	418.0	363.0	450.0	316.0	390.0	455	286.0	386.0	452.0	300.0	311.0	384.0	334.0
Freon-113	1200	<0.6	1.4	3.1	<1	<1	<1	<10	<1	<1	<1	<30	1.4	<0.5	<0.5	<5	<0.5	<2	<1	2.0	<5	<0.5	<1	<5	<1	<5	<1	<10	<1	<1
Vinyl Chloride	0.5	23.7	25.9	25.2	11.8	7.9	18.0	<10	13.1	<1	<1	<30	11.0	2.4	5.0	9.5	6.9	<2	<1	6.9	<5	2.0	1.2	<5	<1	<5	3.8	<10	4.5	4.4
Total Halogenated Hydrocarbons		1,116	2,063	1,510	1,350	1,496	1,968	1,760	838	1,591	798	1,350	1,619	1,149	1,420	1,771	1,670	2,006	1,614	2,459	2,088	1,509	1,747	1,066	1,354	1,947	1,098	1,134	1,696	1,473
Total Concentration of VOCs		1,116	2,063	1,510	1,353	1,496	1,968	1,760	838	1,591	801	1,350	1,619	1,149	1,420	1,771	1,670	2,006	1,614	2,459	2,088	1,509	1,747	1,066	1,354	1,947	1,098	1,134	1,696	1,473

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-92-19 (continued) Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	(D)	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	Jun-01	Sep-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Jul-03	Aug-03	Sep-03	Dec-03	Dec-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Bromobenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Ethylbenzene	300	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Hexachlorobutadiene		<30	<30	<30	<30	<30	<30	<3	<30	<30	<30	<30	<30	<30	<3	<300	<30	<30	<30	<30	<30	<3	<3	<3	<3	<30	<30	<30	<3
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<200	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Naphthalene		<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<200	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Toluene	150	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,2,4-Trichlorobenzene	5	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,2,4-Trimethylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,3,5-Trimethylbenzene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<200	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane	100	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Carbon Tetrachloride	0.5	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Chloroform	100	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<30	<30	<3	<300	<30	<30	<30	<30	<30	<3	<3	<3	<3	<30	<30	<30	<3
Dibromochloromethane		<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<200	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
Dibromomethane		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	2.0	<10	<10	<10	<10	<10	<10	1.7	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<200	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	1.2	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
cis-1,2-Dichloroethene	6	224.0	175.0	101.0	155.0	181.0	130.0	132.0	52.9	50.0	115.0	91.1	37.0	41.4	95.7	<100	29.7	27.9	48.7	44.9	24.6	47.9	65.9	56.3	57.7	59.7	58.6	48.3	6.4
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	4.7	6.8	6.2	4.8	<10	<10	<10	<1
1,3-Dichloropropane		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,1-Dichloropropene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
cis-1,3-Dichloropropene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
trans-1,3-Dichloropropene		<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<20	<20	<20	<2
Tetrachloroethene	5	946.0	962.0	1,250	935.0	976.0	1,030	1,030	966.0	962.0	768.0	790.0	1,277	1,703	1,100	884.6	1,114	1,142	550.5	576.8	613.6	471.0	625.0	642.0	936.0	503.0	632.0	344.0	66.5
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<1	<10	<10	27.6	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Trichloroethene	5	431.0	336.0	356.0	270.0	288.0	205.0	172.0	235.0	147.0	165.0	138.0	150.5	188.2	143.8	<100	162.4	169.0	102.1	117.0	113.2	128.0	185.0	164.0	176.0	92.9	94.8	72.2	14.1
Freon-113	1200	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	<1	<1	<1	<10	<10	<10	<1
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<1	<100	<10	<10	<10	<10	<10	<1	1.3	<1	<1	<10	<10	<10	<1
Total Halogenated Hydrocarbons		1,601	1,473	1,707	1,360	1,445	1,365	1,337	1,254	1,159	1,076	1,019	1,465	1,933	1,341	884.6	1,306	1,339	701.3	738.7	751.4	651.6	884.0	868.5	1,174.5	655.6	785.4	464.5	87.0
Total Concentration of VOCs		1,601	1,473	1,707	1,360	1,445	1,365	1,337	1,254	1,159	1,076	1,019	1,465	1,933	1,341	884.6	1,306	1,339	701.3	738.7	751.4	651.6	884.0	868.5	1,174.5	655.6	785.4	464.5	87.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-94-3 (well is on semi-annual sampling)																							
		Jun-94*	(D)†	Aug-94	Dec-94*	Feb-95*	Mar-95*	May-95*	Jul-95	Aug-95	Sep-95	Nov-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	Jun-97	Dec-97	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Bromobenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
n-Butylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
sec-Butylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
ter-Butylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Ethylbenzene	300	<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Hexachlorobutadiene		<3	<5	<1	0.65	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<3	<3	<3	<3	<3	<3	<30	<3	<3	<3
Isopropylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2
p-Isopropyltoluene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Naphthalene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2
n-Propylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Toluene	150	<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,2,4-Trichlorobenzene	5	<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,2,4-Trimethylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,3,5-Trimethylbenzene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Xylenes, total	1750	<6	<10	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2
Total Aromatic Hydrocarbons					0.65																			
Halogenated Non-Aromatic Hydrocarbons																									
Bromodichloromethane	100	<3	<10	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Carbon Tetrachloride	0.5	3.1	<5	1.4	1.7	1.6	1.7	1.4	2.4	2.7	1.9	2.4	<1	<1	2.0	1.0	2.0	<1	<1	<1	<10	<1	<1	<1
Chloroform	100	9.8	9.0	3.5	3.5	3.1	3.7	2.7	4.7	5.9	5.3	4.4	3.9	3.0	4.0	4.4	3.2	2.4	<1	<1	<10	1.1	<1	1.5
Dibromochloromethane		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2
Dibromomethane		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,1-Dichloroethane	5	<3	<5	1.5	0.74	0.84	0.63	<0.5	<1	1.9	1.6	<1	<1	<1	1.2	1.1	<1	<1	<1	<1	<10	<1	<1	<1
1,2-Dichloroethane	0.5	4.3	<5	<1	0.59	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2
1,1-Dichloroethene	6	24.0	22.0	10.7	11.0	10.0	12.0	8.3	11.4	17.8	14.6	8.2	5.9	8.4	8.7	8.3	6.6	3.9	2.4	<1	<10	<1	<1	<1
cis-1,2-Dichloroethene	6	4.2	5.0	2.5	3.6	4.6	3.5	3.7	4.7	3.9	2.8	3.3	5.8	3.0	2.1	1.6	<1	1.4	2.6	<1	<10	<1	<1	<1
trans-1,2-Dichloroethene	10	<3	<5	<1	4.7	6.6	4.6	5.1	2.0	2.9	2.8	2.4	7.1	3.7	2.4	1.6	<1	1.9	<1	<1	<10	<1	<1	<1
1,3-Dichloropropane		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,1-Dichloropropene		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
cis-1,3-Dichloropropene				<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
trans-1,3-Dichloropropene				<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Methylene Chloride	5	<3	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
1,1,1,2-Tetrachloroethane		<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2
Tetrachloroethene	5	89.0	81.0	81.3	110.0	84.0	110.0	92.0	89.9	88.6	69.2	115.0	156.0	111.0	105.0	105.0	83.8	123.0	1810	519.0	1030.0	589.0	401.0	378.0
1,1,1-Trichloroethane	200	<3	<5	<1	1.4	0.67	<0.5	<0.5	<1	<1	<1	<1	1.8	<1	<1	<1	<1	<1	5.2	1.0	<10	<1	<1	<1
1,1,2-Trichloroethane	5	<3	<5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Trichloroethene	5	96.0	91.0	81.3	62.0	53.0	64.0	47.0	56.0	58.8	51.9	63.5	38.9	35.3	52.5	53.7	41.3	36.5	32.3	7.2	12.6	4.8	6.3	5.8
Freon-113	1200	<3		3.1	0.99	0.90•	0.59	<0.5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Vinyl Chloride	0.5	<3	<10	<1	3.0	<0.5	1.0	1.1	<1	<1	<1	<1	5.6	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1
Total Halogenated Hydrocarbons		230.4	208.0	185.3	203.22	165.31	201.72	161.3	171.1	182.5	150.1	199.2	225.0	164.4	177.9	176.7	136.9	169.1	1852.5	527.2	1042.6	594.9	407.3	385.3
Total Concentration of VOCs		230.4	208.0	185.3	203.87	165.31	201.72	161.3	171.1	182.5	150.1	199.2	225.0	164.4	177.9	176.7	136.9	169.1	1852.5	527.2	1042.6	594.9	407.3	385.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN

(D) = Duplicate sample
• = Compound detected in method blank, 1.1µg

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-94-3 (continued)																
		Sep-99	Nov-99	Mar-00	May-00	Sep-00	Dec-00	Mar-01	May-01	Sep-01	Dec-01	Mar-02	May-02	Sep-02	Feb-03	Sep-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.3	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																3.9		
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	2.5	<1	<1	1.2	1.3	1.4	2.4	1.4	2.6
Chloroform	100	<1	<1	<1	<1	<3	<3	<3	<3	3.5	<3	<3	4.9	6.1	3.2	6.7	3.5	5.6
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.7	3.5	<1	2.6	1.9	1.6
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	2.7	6.8	3.3	3.8	9.0	14.6	5.4	12.6	10.0	12.2
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	2.4	<1	3.4	2.4	1.8
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	1.0	<1	1.6	1.4	<1	<1	1.0	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	182.0	162.0	328.0	221.0	87.7	147.4	73.9	116.5	197.6	222.1	128.9	106.2	157.9	102.0	202.0	99.2	99.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	4.9	2.8	5.2	3.3	1.8	5.4	4.9	9.8	32.1	21.1	23.9	32.0	38.3	30.7	58.3	34.8	43.3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		186.9	164.8	333.2	224.3	89.5	152.8	78.8	130.0	242.5	248.1	158.0	157.8	224.1	143.7	288.0	153.2	166.1
Total Concentration of VOCs		186.9	164.8	333.2	224.3	89.5	152.8	78.8	130.0	242.5	248.1	158.0	157.8	224.1	143.7	291.9	153.2	166.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-95-22 Aug-95 (G)	Nov-95	Mar-96	Jun-96	Sep-96	(D)*	Nov-96	(D)*	Mar-97	(D)*	Jun-97	(D)*	Sep-97	(D)*	Dec-97	(D)*	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	(D)*	Jun-99	Sep-99	Nov-99
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Bromobenzene		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
n-Butylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
sec-Butylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
ter-Butylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,2-Dichlorobenzene	600	<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,4-Dichlorobenzene	5	<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	0.71	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Ethylbenzene	300	<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Hexachlorobutadiene		<100	<2	<2	<200	<3	<700	<30	<3000	<1500	<500	<300	<100	<300	<100	<300	<0.5	<150	<300	<300	<30	<300	<0.5	<300	<1500	<600
Isopropylbenzene		<100	<1	<1	<100	<2	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	<0.5	<100	<200	<200	<20	<200	<0.5	<200	<1000	<400
p-Isopropyltoluene		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Naphthalene		<100	<1	<1	<100	<2	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	<0.5	<100	<200	<200	<20	<200	<0.5	<200	<1000	<400
n-Propylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Toluene	150	<100	8.8	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	1.7	<50	<100	<100	<10	<100	0.54	<100	<500	<200
1,2,4-Trichlorobenzene	5	<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,2,4-Trimethylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,3,5-Trimethylbenzene		<100	<2	<2	<200	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Xylenes, total	1750	<100	<2	<2	<200	<2	<2000	<20	<6000	<1000	<1000	<200	<200	<200	<200	<200	<1	<100	<200	<200	<20	<200	<1	<200	<1000	<400
Total Aromatic Hydrocarbons			8.8														2.41						0.54			
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane	100	<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Bromoform		<100	<2	<2	<200	<2	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	1.4	<100	<200	<200	<20	<200	<0.5	<200	<1000	<400
Carbon Tetrachloride	0.5	236.0	708.0	28.6	120.0	154.0	<700	207.0	<3000	<500	<500	<100	<100	<100	<100	<100	55.0	69.4	<100	<100	43.5	<100	39.0	<100	<500	<200
Chloroform	100	<100	51.4	7.0	<100	27.6	<700	26.3	<3000	<500	<500	<100	<100	<100	<100	<100	7.3	<50	<100	<100	<10	<100	7.5	<100	<500	<200
Dibromochloromethane		<100	<1	<1	<100	<2	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	<0.5	<100	<200	<200	<20	<200	<0.5	<200	<1000	<400
Dibromomethane		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,1-Dichloroethane	5	<100	11.9	1.2	<100	9.6	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	4.5	<50	<100	<100	<10	<100	3.8	<100	<500	<200
1,2-Dichloroethane	0.5	<100	<1	<1	<100	<2	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	<0.5	<100	<200	<200	<20	<200	0.50	<200	<1000	<400
1,1-Dichloroethene	6	198.0	525.0	24.8	180.0	146.0	<700	190.0	<3000	<500	<500	103.0	160.0	111.0	130.0	<100	99.0	113.0	<100	<100	62.3	<100	<0.5	<100	<500	<200
cis-1,2-Dichloroethene	6	<100	109.0	12.4	110.0	106.0	<700	78.5	<3000	<500	<500	2320	4400	1720	610.0	502.0	740.0	490.0	333.0	309.0	212.0	321.0	330.0	174.0	<500	<200
trans-1,2-Dichloroethene	10	<100	<1	<1	<100	1.5	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	1.3	<50	<100	<100	<10	<100	15.0	<100	<500	<200
1,3-Dichloropropane		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,1-Dichloropropene		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
cis-1,3-Dichloropropene		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
trans-1,3-Dichloropropene		<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Methylene Chloride	5	<100	11.5	<1	<100	3.8	<2000	<10	<6000	<500	<1000	<100	<200	<100	<200	<100	1.2	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
1,1,1,2-Tetrachloroethane		<100	84.6	<1	<100	56.6	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	31.0	<100	<200	<200	<20	<200	18.0	<200	<1000	<400
1,1,2,2-Tetrachloroethane	1	<100	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Tetrachloroethene	5	21,800	46,400	37,000	21,900	21,240	32,000	28,200	35,000	18,800	18,000	17,600	19,000	17,600	27,000	14,200	20,000	18,200	14,800	12,800	12,300	9230	8900	8,520	7400	7540
1,1,1-Trichloroethane	200	<100	213.0	23.3	200.0	168.0	<700	257.0	<3000	<500	<500	<100	100.0	<100	150.0	<100	89.0	69.4	<100	<100	31.1	<100	25.0	<100	<500	<200
1,1,2-Trichloroethane	5	<100	<1	<1	<100	4.4	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	2.6	<50	<100	<100	<10	<100	1.9	<100	<500	<200
Trichloroethene	5	4820	12,600	6640	3525	4120	6300	4350	5700	2460	2700	3130	4000	2930	3100	1640	2200	3450	2240	1750	1440	1110	1500	1010	1750	1290
Freon-113	1200	<500	<1	<1	<100	<1	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Vinyl Chloride	0.5	<100	5.6	<1	<100	<1	<700	<10	<6000	<500	<500	<100	<100	<100	<100	<100	<0.5	<50	<100	<100	<10	<100	<0.5	<100	<500	<200
Total Halogenated Hydrocarbons		27,054	60,720	43,737	26,035	26,038	38,300	33,309	40,700	21,260	20,700	23,153	27,660	22,361	30,990	16,342	23,232	22,392	17,373	14,859	14,089	10,661	10,841	9,704	9,150	8,830
Total Concentration of VOCs		27,054	60,729	43,737	26,035	26,038	38,300	33,309	40,700	21,260	20,700	23,153	27,660	22,361	30,990	16,342	23,235	22,392	17,373	14,859	14,089	10,661	10,841	9,704	9,150	8,830

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-95-22 (Continued) Mar-00	May-00	Sep-00	(D)*	Nov-00	Dec-00	Dec-00*	Mar-01	(D)*	Apr-01	Jun-01	Sep-01	(D)*	Dec-01	Mar-02	Jun-02	Sep-02	Nov-02	Feb-03	Apr-03	Jul-03	Aug-03	Sep-03	Dec-03	Jan-04	Mar-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Bromobenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
n-Butylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
sec-Butylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
ter-Butylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,2-Dichlorobenzene	600	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,4-Dichlorobenzene	5	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Ethylbenzene	300	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Hexachlorobutadiene		<30	<300	<300	<50	<300	<600	<0.5	<300	<0.5	<300	<30	<300	<0.5	<300	<300	<30	<300	<30	<300	<30	<3	<3	<3	<30	<30	<3	<3	<3
Isopropylbenzene		<20	<200	<200	<50	<200	<400	<0.5	<200	<0.5	<200	<20	<200	<0.5	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
p-Isopropyltoluene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Naphthalene		<20	<200	<200	<50	<200	<400	<0.5	<200	<0.5	<200	<20	<200	<0.5	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
n-Propylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Toluene	150	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,2,4-Trichlorobenzene	5	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,3,5-Trimethylbenzene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Xylenes, total	1750	<20	<200	<200	<100	<200	<400	<1	<200	<1	<200	<20	<200	<1	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane	100	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Bromoform		<20	<200	<200	<50	<200	<400	<0.5	<200	<0.5	<200	<20	<200	<0.5	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
Carbon Tetrachloride	0.5	<10	<100	<100	<50	<100	<200	11.0	<100	28.0	<100	19.8	<100	9.0	<100	<100	<10	<100	<10	<100	<10	4.5	7.8	4.6	<10	<10	8.7	3.4	4.3
Chloroform	100	<10	<300	<300	<50	<300	<600	3.0	<300	3.8	<300	<10	<300	3.4	<300	<300	<10	<300	<10	<300	<10	<1	<1	<1	<10	<10	<1	<1	<1
Dibromochloromethane		<20	<200	<200	<50	<200	<400	<0.5	<200	<0.5	<200	<20	<200	<0.5	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
Dibromomethane		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,1-Dichloroethane	5	<10	<100	<100	<50	<100	<200	0.94	<100	1.1	<100	<10	<100	0.69	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,2-Dichloroethane	0.5	<20	<200	<200	<50	<200	<400	<0.5	<200	<0.5	<200	<20	<200	<0.5	<200	<200	<20	<200	<20	<200	<20	<2	<2	<2	<20	<20	<2	<2	<2
1,1-Dichloroethene	6	<10	<100	<100	<50	<100	<200	13.0	<100	16.0	<100	16.0	<100	7.2	<100	<100	<10	<100	<10	<100	<10	2.2	5.9	<1	<10	<10	3.8	1.7	3.3
cis-1,2-Dichloroethene	6	<10	149.0	<100	92.0	<100	<200	54.0	<100	78.0	<100	210.3	106.6	110.0	<100	<100	76.7	<100	51.2	<100	13.8	19.4	26.6	11.3	<10	13.8	12.2	8.4	9.0
trans-1,2-Dichloroethene	10	<10	<100	<100	<50	<100	<200	2.2	<100	2.4	<100	<10	<100	12.0	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,3-Dichloropropane		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,1-Dichloropropene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
cis-1,3-Dichloropropene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
trans-1,3-Dichloropropene		<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Methylene Chloride	5	<10	<100	<100	<100	<100	<200	<1	<100	<1	<100	<10	<100	<1	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<200	<200	<50	<200	<400	4.3	<200	5.4	<200	<20	<200	4.5	<200	<200	<20	<200	<20	<200	<20	2.2	<1	<1	<20	<20	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Tetrachloroethene	5	510.0	2,410	3,399	3,900	3,510	3,784	980.0	4,019	3,300	2,594	3,166	2,654	2,700	1,446	1,760	1,805	1,784	1,597	583.0	535.0	943.0	1,390	595.0	419.0	546.0	644.0	330.0	370.0
1,1,1-Trichloroethane	200	<10	<100	<100	<50	<100	<200	2.5	<100	2.6	<100	<10	<100	1.6	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<100	<100	<50	<100	<200	0.66	<100	0.63	<100	<10	<100	0.69	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Trichloroethene	5	57.3	408.0	547.3	590.0	580.7	566.3	190.0	813.1	610.0	567.4	839.0	518.6	500.0	276.9	414.4	308.2	316.6	190.7	104.0	104.0	172.0	326.0	145.0	139.0	187.0	252.0	106.0	135.0
Freon-113	1200	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Vinyl Chloride	0.5	<10	<100	<100	<50	<100	<200	<0.5	<100	<0.5	<100	<10	<100	<0.5	<100	<100	<10	<100	<10	<100	<10	<1	<1	<1	<10	<10	<1	<1	<1
Total Halogenated Hydrocarbons		567.3	2,967	3,946	4,582	4,090	4,350	1,261.6	4,832	4,048	3,162	4,251	3,280	3,349	1,723	2,175	2,190	2,101	1,839	687.0	652.8	1,143	1,756	755.9	558.0	746.8	920.7	449.5	521.6
Total Concentration of VOCs		567.3	2,967	3,946	4,582	4,090	4,350	1,261.6	4,832	4,048	3,162	4,251	3,280	3,349	1,723	2,175	2,190	2,101	1,839	687.0	652.8	1,143	1,756	755.9	558.0	746.8	920.7	449.5	521.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-95-23 Jan-96 (G)	Apr-96	Jun-96†	(D)	Sep-96	(D)*	Nov-96	(D)*	Mar-97	(D)*	Jun-97	Sep-97	(D)*	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	(D)*	Feb-00	Mar-00	Mar-00	Mar-00	(D)*	May-00	(D)*
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<100	<5	1.8	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	1.1
Bromobenzene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
n-Butylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
sec-Butylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
ter-Butylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,3-Dichlorobenzene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,4-Dichlorobenzene	5	<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	1.3
Ethylbenzene	300	<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Hexachlorobutadiene		<2	<200	<5	<2	<300	<700	<30	<900	<1500	<500	<300	<300	<100	<300	<300	<1500	<1500	<30	<1500	<1500	<50	<30	<1500	<1500	<1500	<50	<600	<0.5
Isopropylbenzene		<1	<100	<5	<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	<0.5
p-Isopropyltoluene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Naphthalene		<1	<100		<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	<0.5
n-Propylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Toluene	150	7.9	<100	8.8	12.1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	5.3
1,2,4-Trichlorobenzene	5	<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,2,4-Trimethylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,3,5-Trimethylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Xylenes, total	1750	3.9	<200	<10	<2	<200	<2000	<20	<2000	<1000	<1000	<200	<200	<200	<200	<200	<1000	<1000	<20	<1000	<1000	<100	<20	<1000	<1000	<1000	<100	<400	<1
Total Aromatic Hydrocarbons		11.8		8.8	13.9																								7.7
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane	100	<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Bromoform		5.4	<200	<5	8.3	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	4.5
Carbon Tetrachloride	0.5	900.0	2200	1700	1230	1120	1200	990.0	2100	1000	1300	1140	1590	1700	1420	2400	2140	1140	1250	1250	1220	1800	87.5	899.0	791.0	787.0	520.0	727.0	640.0
Chloroform	100	68.2	<100	120.0	124.0	118.0	<700	168.0	<900	<500	<500	<100	<100	100.0	<100	151.0	<500	<500	100.0	<500	<500	100.0	<10	<500	<500	<500	59.0	<600	63.0
Dibromochloromethane		<1	<100	<5	<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	<0.5
Dibromomethane		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,1-Dichloroethane	5	10.4	<100	13.0	15.2	<100	<700	11.3	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	8.2
1,2-Dichloroethane	0.5	8.8	<100	9.2	<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	6.9
1,1-Dichloroethene	6	145.0	202.0	210.0	370.0	122.0	<700	194.0	220.0	<500	<500	108.0	119.0	180.0	124.0	220.0	<500	<500	141.0	<500	<500	200.0	<10	<500	<500	<500	70.0	<200	100.0
cis-1,2-Dichloroethene	6	82.9	241.0	670.0	775.0	1110	1600	975.0	1000	<500	740.0	754.0	583.0	780.0	566.0	445.0	<500	<500	674.0	<500	<500	330.0	48.6	<500	<500	525.0	450.0	790.0	720.0
trans-1,2-Dichloroethene	10	<1	<100	<5	3.3	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	4.7
1,3-Dichloropropane		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
1,1-Dichloropropene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
cis-1,3-Dichloropropene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
trans-1,3-Dichloropropene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Methylene Chloride	5	29.9	<100	26.0	39.0	<100	<2000	26.8	<2000	<500	<1000	<100	<100	<200	<100	<100	<500	<500	<10	<500	<500	160.0	<10	<500	<500	<500	<100	<200	19.0
1,1,1,2-Tetrachloroethane		32.0	<100	32.0	57.9	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<20	<1000	<1000	<1000	<50	<400	28.0
1,1,2,2-Tetrachloroethane	1	<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Tetrachloroethene	5	24,800	57,500	37,000	38,300	27,850	27,000	27,980	39,000	27,700	31,000	24,100	28,300	34,000	32,200	54,900	38,300	34,400	27,500	35,700	35,200	38,000	1,550	19,300	20,400	18,000	13,000	21,600	21,000
1,1,1-Trichloroethane	200	14.9	<100	<5	2.9	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	2.2
1,1,2-Trichloroethane	5	<1	<100	8.1	13.5	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	5.0
Trichloroethene	5	27,500	39,100	37,000	40,850	34,050	28,000	31,850	40,000	28,100	32,000	27,200	29,200	35,000	32,000	39,700	43,600	35,500	30,100	38,900	35,600	45,000	1,720	17,700	17,800	17,600	16,000	24,900	24,000
Freon-113	1200	<1	<100		<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	<0.5
Vinyl Chloride	0.5	2.6	<100	4.9	4.9	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<10	<500	<500	<500	<50	<200	1.4
Total Halogenated Hydrocarbons		53,600	99,243	76,793	81,794	64,370	57,800	62,195	82,320	56,800	65,040	53,302	59,792	71,760	66,310	97,816	84,040	71,040	59,765	75,850	72,020	85,590	3,406	37,899	38,991	36,912	30,099	48,017	46,603
Total Concentration of VOCs		53,612	99,243	76,802	81,808	64,370	57,800	62,195	82,320	56,800	65,040	53,302	59,792	71,760	66,310	97,816	84,040	71,040	59,765	75,850	72,020	85,590	3,406	37,899	38,991	36,912	30,099	48,017	46,611

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by California Laboratory Services

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-95-23 (continued) Sep-00	(D)*	Nov-00	Dec-00*	Jan-01	Jan-01	Feb-01	Feb-01	Feb-01	Jun-01	Sep-01	(D)*	Dec-01	Mar-02	(D)*	Jun-02	(D)*	Oct-02	Nov-02	(D)*	Feb-03	(D)*	Apr-03	(D)*	Jul-03#	Aug-03	Sep-03	Dec-03	(D)*	Jan-04	Mar-04	May-04	Aug-04	(D)*
Aromatic or Non-Halogenated Hydrocarbons																																			
Benzene	1	<100	<50	<100	0.56	3.2	<100	<100	<10	<100	<500	<500	1.0	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Bromobenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
n-Butylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
sec-Butylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
ter-Butylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,3-Dichlorobenzene		<100	<50	<100	<0.5	1.2	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,4-Dichlorobenzene	5	<100	<50	<100	1.1	1.3	<100	<100	<10	<100	<500	<500	1.3	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Ethylbenzene	300	<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Hexachlorobutadiene		<300	<50	<300	<0.5	<3	<300	<300	<30	<300	<1500	<1500	<0.5	<1500	<1500	<30	<300	<30	<10	<300	<30	<1500	<20	<300	<20	<10	<300	<300	<300	<5	<150	<300	<150	<150	<1
Isopropylbenzene		<200	<50	<200	<0.5	<2	<200	<200	<20	<200	<1000	<1000	<0.5	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
p-Isopropyltoluene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Naphthalene		<200	<50	<200	<0.5	<2	<200	<200	<20	<200	<1000	<1000	<0.5	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
n-Propylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Toluene	150	<100	<50	<100	2.1	2.6	<100	<100	<10	<100	<500	<500	3.9	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,2,4-Trichlorobenzene	5	<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,2,4-Trimethylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,3,5-Trimethylbenzene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Xylenes, total	1750	<200	<100	<200	<1	<2	<200	<200	<20	<200	<1000	<1000	<1	<1000	<1000	<1	<200	<1	<20	<200	<50	<1000	<30	<200	<30	<20	<200	<200	<200	<10	<100	<200	<100	<100	<2
Total Aromatic Hydrocarbons					3.76	8.3							6.2																						
Halogenated Non-Aromatic Hydrocarbons																																			
Bromodichloromethane	100	<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Bromoform		<200	<50	<200	2.2	5.5	<200	<200	<20	<200	<1000	<1000	3.6	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
Carbon Tetrachloride	0.5	480.6	350.0	367.6	230.0	209.0	368.4	328.6	441.2	462.7	613.8	774.6	440.0	501.2	<500	390.0	150.1	110.0	280.0	360.3	230.0	<500	240.0	205.0	140.0	323.0	235.0	<100	<100	51.0	67.6	<100	<50	<50	32.0
Chloroform	100	<300	<50	<300	35.0	48.8	<300	<300	39.4	<300	<1500	<1500	64.0	<1500	<1500	46.0	<300	44.0	40.0	<300	34.0	<1500	39.0	<300	<20	35.3	<300	<300	<300	<5	<150	<300	<150	<150	2.5
Dibromochloromethane		<200	<50	<200	<0.5	<2	<200	<200	<20	<200	<1000	<1000	<0.5	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
Dibromomethane		<100	<50	<100	0.7	2.1	<100	<100	<10	<100	<500	<500	0.89	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,1-Dichloroethane	5	<100	<50	<100	5.3	8.0	<100	<100	<10	<100	<500	<500	6.3	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,2-Dichloroethane	0.5	<200	<50	<200	2.7	3.5	<200	<200	<20	<200	<1000	<1000	7.1	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
1,1-Dichloroethene	6	<100	51.0	<100	43.0	66.0	<100	<100	75.4	<100	<500	<500	84.0	<500	<500	64.0	<100	46.0	45.0	<100	38.0	<500	35.0	<100	<20	24.4	<100	<100	<100	5.6	<50	<100	<50	<50	3.1
cis-1,2-Dichloroethene	6	2,341	2,000	2,096	3,300	3,740	1,115	1,475	355.7	484.2	<500	535.6	1,000	<500	<500	460.0	2,056	2,700	730.0	1,240	960.0	<500	340.0	185.0	220.0	305.0	<100	<100	<100	15.0	<50	<100	<50	<50	4.8
trans-1,2-Dichloroethene	10	<100	<50	<100	43.0	2.0	<100	<100	<10	<100	<500	<500	4.4	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,3-Dichloropropane		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,1-Dichloropropene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
cis-1,3-Dichloropropene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
trans-1,3-Dichloropropene		<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Methylene Chloride	5	<100	<100	<100	<1	1.0	<100	<100	<10	<100	<500	<500	9.5	<500	<500	190.0	<100	<50	<20	<100	<50	<500	120.0	<100	40.0	<20	<100	<100	<100	<10	<50	<100	<50	<50	<2
1,1,1,2-Tetrachloroethane		<200	<50	<200	16.0	22.6	<200	<200	<20	<200	<1000	<1000	35.0	<1000	<1000	<30	<200	<30	<10	<200	<30	<1000	<20	<200	<20	<10	<200	<200	<200	<5	<100	<200	<100	<100	<1
1,1,2,2-Tetrachloroethane	1	<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Tetrachloroethene	5	13,673	11,000	9,514	7,800	7,031	9,466	8,752	14,301	9,759	17,562	18,868	15,000	12,837	11,137	11,000	5,800	6,400	8,500	8,791	4,100	4,960	3,800	3,420	3,400	4,420	4,500	3,580	1,470	1,200	1,300	940.0	773.0	790.0	550.0
1,1,1-Trichloroethane	200	<100	<50	<100	<0.5	1.3	<100	<100	<10	<100	<500	<500	1.2	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
1,1,2-Trichloroethane	5	<100	<50	<100	6.1	27.0	<100	<100	69.6	<100	<500	<500	7.6	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Trichloroethene	5	17,594	14,000	12,805	14,000	10,745	12,893	10,974	13,088	11,360	19,617	22,759	20,000	18,555	14,967	12,000	8,843	9,400	10,000	11,406	8,900	9,950	6,500	6,580	6,300	7,460	6,940	4,750	2,120	1,700	1,700	1,280	1,200	940.0	710.0
Freon-113	1200	<100	<50	<100	<0.5	<1	<100	<100	<10	<100	<500	<500	<0.5	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Vinyl Chloride	0.5	<100	<50	<100	1.3	1.7	<100	<100	<10	<100	<500	<500	1.3	<500	<500	<30	<100	<30	<10	<100	<30	<500	<20	<100	<20	<10	<100	<100	<100	<5	<50	<100	<50	<50	<1
Total Halogenated Hydrocarbons		34,089	27,401	24,783	25,485	21,915	23,843	21,529	28,370	22,066	37,793	42,938	36,665	31,893	26,104	24,150	16,849	18,700	19,595	21,798	14,262	14,910	11,074	10,390	10,100	12,568	11,675	8,330	3,590	2,972	3,068	2,220	1,973	1,730	1,302
Total Concentration of VOCs		34,089	27,401	24,783	25,489	21,923	23,843	21,529	28,370	22,066	37,793	42,938	36,671	31,893	26,104	24,150	16,849	18,700	19,595	21,798	14,262	14,910	11,074	10,390	10,100	12,568	11,675	8,330	3,590	2,972	3,068	2,220	1,973	1,730	1,302

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

#-surrogate recovery low

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-00-4 Jun-00 (G)	Jun-00	(D)*	Sep-00	Nov-00	Dec-00	Feb-01	Mar-01	Mar-01	(D)*	May-01	May-01	Sep-01	Nov-01	Feb-02	May-02	Sep-02
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<1	<0.5	<1	5.3	<1	3.2	1.3	4.2	4.1	<1	<1	4.5	<1	5.2	<1	<1
Bromobenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	600	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						5.3		3.2	1.3	4.2	4.1			4.5		5.2		
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane	100	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	3.3	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<3	<3	<3	<3	<3	<3	1.2	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<1	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	2.5	<1	<0.5	<1	<1	<1	<1	<1	<1	30.0	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	1.6	<1	<0.5	<1	<1	<1	<1	<1	<1	41.0	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		4.1									75.5							
Total Concentration of VOCs		4.1				5.3		3.2	1.3	4.2	79.6			4.5		5.2		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(G) = Grab sample
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7-00-4 (continued)																
		Oct-02	Jan-03	Apr-03	Jul-03*	Aug-03*	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	1.1	<1	6.1	0.53	8.9	<1	3.3	<1	<1	<1	<1	<1	2.6	<1	3.7	<1	1.4
Bromobenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	600	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<0.5	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.1		6.1	0.53	8.9		3.3						2.6		3.7		1.4
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane	100	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<0.5	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	7.0	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		7.0																
Total Concentration of VOCs		8.1		6.1	0.53	8.9		3.3						2.6		3.7		1.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-21 Aug-95(G)	Sep-95	(S)*	Nov-95	(D)*	Mar-96	Jun-96	Sep-96	Nov-96	(D)*	Mar-97	(S)*	(D)*	Jun-97	(S)*	(D)*	Jul-97(G)	Sep-97	(S)*	(D)*	Dec-97(G)	Dec-97	Dec-97*(G)	Jan-98(G)	Mar-98	Jun-98	(D)*	Sep-98	(D)*	Dec-98	(D)*	Dec-98*	Jan-99	Mar-99	(D)*	Jun-99	Sep-99	Oct-99(G)
Aromatic or Non-Halogenated Hydrocarbons																																							
Benzene	1	<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Bromobenzene		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
n-Butylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
sec-Butylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
ter-Butylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,2-Dichlorobenzene	600	<100	<1000	<3000	<1	<3000	<100	1.5	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	0.59	<30	<5	<5	<0.5	<1	<5	<50
1,4-Dichlorobenzene	5	<100	<1000	<3000	<2	<3000	<200	6.3	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	0.83	<30	<5	<5	<0.5	<1	<5	<50
Ethylbenzene	300	<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Hexachlorobutadiene		<100	<1000	<3000	<2	<3000	<200	<2	<300	<30	<900	<300	<100	<100	<300	<100	<100	<15	<30	<100	<100	<30	<30	<100	<300	<150	<30	<0.5	<30	<0.5	<30	<0.5	<30	<15	<15	<0.5	<3	<15	<150
Isopropylbenzene		<100	<1000	<3000	<1	<3000	<100	<1	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	<0.5	<30	<10	<10	<0.5	<2	<10	<100
p-Isopropyltoluene		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Methyl tert-Butyl Ether															<500			<25	<50			<50	<50		<500	<250	<50		<50		<50	<0.5	<30	<25	<25	<0.5	<5	<25	<250
Naphthalene		<100	<1000	<3000	<1	<3000	<100	<1	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	<0.5	<30	<10	<10	<0.5	<2	<10	<100
n-Propylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Toluene	150	<100	<1000	<3000	32.3	<3000	<100	20.2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	0.76	<30	<5	<5	<0.5	<1	<5	<50
1,2,4-Trichlorobenzene	5	<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,2,4-Trimethylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,3,5-Trimethylbenzene		<100	<1000	<3000	<2	<3000	<200	<2	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Xylenes, total	1750	<100	<1000	<6000	<2	<6000	<200	6.0	<200	<20	<2000	<200	<200	<200	<200	<200	<200	<10	<20	<300	<300	<20	<20	<200	<200	<100	<20	<1	<20	<1	<20	<1	<70	<10	<10	<1	<2	<10	<100
Total Aromatic Hydrocarbons					32.3			34.0																								2.18							
Halogenated Non-Aromatic Hydrocarbons																																							
Bromodichloromethane	100	<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Bromoform		<100	<1000	<3000	<2	<3000	<200	9.9	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	0.64	<30	<10	<10	<0.5	<2	<10	<100
Carbon Tetrachloride	0.5	4000	5890	8100	4020	<3000	5180	2930	2412	1160	1800	1020	950.0	940.0	<100	<100	<100	<5	<10	<100	<100	18.9	32.4	390.0	<100	<50	<10	3.7	<10	<0.5	27.6	31.0	150.0	<5	<5	0.79	<1	<5	<50
Chloroform	100	273.0	<1000	<3000	82.7	<3000	145.0	37.0	<100	23.7	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	0.6	<10	0.61	<30	<5	<5	<0.5	<1	10.2	<50
Dibromochloromethane		<100	<1000	<3000	<1	<3000	<100	<1	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	<0.5	<30	<10	<10	<0.5	<2	<10	<100
Dibromomethane		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,1-Dichloroethane	5	<100	<1000	<3000	21.5	<3000	<100	9.9	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	8.4	<30	<5	<5	<0.5	<1	<5	<50
1,2-Dichloroethane	0.5	<100	<1000	<3000	<1	<3000	<100	<1	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	<0.5	<30	<10	<10	<0.5	<2	<10	<100
1,1-Dichloroethene	6	<100	<1000	<3000	222.0	<3000	148.0	133.0	<100	154.0	<900	237.0	240.0	240.0	<100	<100	<100	<5	<10	<100	<100	<10	<10	140.0	<100	<50	<10	0.55	<10	<0.5	<10	<0.5	46.0	<5	<5	<0.5	<1	<5	<50
cis-1,2-Dichloroethene	6	<100	<1000	<3000	131.0	<3000	114.0	146.0	<100	118.0	<900	138.0	160.0	160.0	<100	<100	<100	<5	<10	<100	<100	<10	16.1	<100	<100	<50	<10	1.0	<10	0.54	<10	5.6	<30	<5	<5	1.5	<1	<5	<50
trans-1,2-Dichloroethene	10	<100	<1000	<3000	10.1	<3000	<100	16.7	<100	15.8	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,3-Dichloropropane		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
1,1-Dichloropropene		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
cis-1,3-Dichloropropene		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
trans-1,3-Dichloropropene		<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Methylene Chloride	5	<100	<1000	<6000	<1	<6000	<100	<2	<100	<10	<2000	<100	<200	<200	<100	<200	<200	<5	<10	<300	<300	<10	<10	<200	<100	<50	<10	<1	<10	<1	<10	<1	<70	<5	<5	<1	<1	<5	<50
1,1,1,2-Tetrachloroethane		335.0	<1000	<3000	329.0	<3000	<100	<1	<200	<20	<900	<200	<100	<100	<200	<100	<100	<10	<20	<100	<100	<20	<20	<100	<200	<100	<20	<0.5	<20	<0.5	<20	13.0	<30	<10	<10	<0.5	<2	<10	<100
1,1,2,2-Tetrachloroethane	1	<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	0.59	<30	<5	<5	<0.5	<1	<5	<50
Tetrachloroethene	5	85,400	178,000	190,000	127,000	140,000	139,000	134,000	112,000	78,950	95,000	71,100	69,000	73,000	5610	5400	5000	5030	5180	5400	5000	16,600	17,000	43,000	8170	1645	2590	3300	912	1000	11,200	13,000	22,000	758	720	750	527	1,280	2850
1,1,1-Trichloroethane	200	255.0	<1000	<3000	<1	<3000	303.0	154.0	124.0	242.0	<900	318.0	420.0	420.0	<100	<100	<100	9.4	<10	<100	<100	59.6	51.4	450.0	<100	<50	<10	8.1	<10	1.8	<10	56.0	220.0	<5	<5	1.6	<1	<5	<50
1,1,2-Trichloroethane	5	<100	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Trichloroethene	5	58,600	93,400	100,000	71,400	71,000	50,700	45,050	22,300	16,400	19,000	15,000	18,000	18,000	169.0	180.0	180.0	54.8	132.0	170.0	150.0	393.0	520.0	8100	<100	<50	55.0	53.0	<10	10.0	548.0	580.0	2000	52.2	12.3	16.0	29.2	44.9	77.1
Freon-113	1200	<500	<1000	<3000	<1	<3000	<100	<1	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	35.0	<5	<5	<0.5	<1	<5	<50
Vinyl Chloride	0.5	<100	<1000	<3000	50.9	<3000	<100	7.7	<100	<10	<900	<100	<100	<100	<100	<100	<100	<5	<10	<100	<100	<10	<10	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<50
Total Halogenated Hydrocarbons		148,863	277,290	298,100	203,267	211,000	195,590	182,494	136,836	97,064	115,800	87,813	88,770	92,760	5,779	5,580	5,180	5,094	5,312	5,570	5,150	17,072	17,620	52,080	8,170	1,645	2,645	3,366	912	1,013	11,776	13,696	24,451	810.2	732.3	769.9	556.2	1,335	2927.1
Total Concentration of VOCs		148,863	277,290	298,100	203,300	211,000	195,590	182,528	136,836	97,064	115,800	87,813	88,770	92,760	5,779	5,580	5,180	5,094	5,312	5,570	5,150	17,072	17,620	52,080	8,170	1,645	2,645	3,366	912	1,013	11,776	13,698	24,451	810.2	732.3	769.9	556.2	1,335	2927.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

(S) = Split sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-21 (continued) Nov-99	Mar-00	May-00	Sep-00	(D)*	Oct-00(G)	Nov-00	Nov-00	Mar-01	(D)*	Jun-01	(D)*	Sep-01	(D)*	Dec-01	Mar-02	Jun-02	Sep-02	Nov-02	Feb-03	(D)*	Apr-03	Apr-03	Apr-03	May-03	May-03	Jun-03	Jun-03	Jul-03	Sep-03	(D)*	Dec-03	Jan-04	Mar-04	Mar-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																																						
Benzene	1	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Bromobenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
n-Butylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
sec-Butylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
ter-Butylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,2-Dichlorobenzene	600	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,4-Dichlorobenzene	5	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	0.64	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	1.5	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Ethylbenzene	300	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Hexachlorobutadiene		<30	<3	<3	<30	<50	<300	<1500	<300	<3	<0.5	<1500	<20	<300	<0.5	<300	<300	<300	<300	<3000	<30	<0.5	<3	<3	<30	<30	<30	<3	<300	<300	<30	<0.5	<150	<30	<30	<3	<3	<3
Isopropylbenzene		<20	<2	<2	<20	<50	<200	<1000	<200	<2	<0.5	<1000	<20	<200	<0.5	<200	<200	<200	<200	<2000	<20	<0.5	<2	<2	<20	<20	<20	<2	<200	<200	<20	<0.5	<100	<20	<20	<2	<2	<2
p-Isopropyltoluene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Methyl tert-Butyl Ether		<50	<5	<5	<50	<50	<500	<2500	<500	<5	0.5	<2500	<20	<500	<0.5	<500	<500	<500	<500	<5000	<50	<0.5	<5	<5	<50	<50	<50	<5	<500	<500	<50	<0.5	<250	<50	<50	<5	<5	<5
Naphthalene		<20	<2	<2	<20	<50	<200	<1000	<200	<2	<0.5	<1000	<20	<200	<0.5	<200	<200	<200	<200	<2000	<20	<0.5	<2	<2	<20	<20	<20	<2	<200	<200	<20	<0.5	<100	<20	<20	<2	<2	<2
n-Propylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Toluene	150	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	0.7	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	2.3	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,2,4-Trichlorobenzene	5	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,3,5-Trimethylbenzene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Xylenes, total	1750	<20	<2	<2	<20	<100	<200	<1000	<200	<2	<1	<1000	<30	<200	<1	<200	<200	<200	<200	<2000	<20	<1	<2	<2	<20	<20	<20	<2	<200	<200	<20	<1	<100	<20	<20	<2	<2	<2
Total Aromatic Hydrocarbons											0.5				1.34													3.8										
Halogenated Non-Aromatic Hydrocarbons																																						
Bromodichloromethane	100	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Bromoform		<20	<2	<2	<20	<50	<200	<1000	<200	<2	<0.5	<1000	<20	<200	<0.5	<200	<200	<200	<200	<2000	<20	<0.5	<2	<2	<20	<20	<20	<2	<200	<200	<20	<0.5	<100	<20	<20	<2	<2	<2
Carbon Tetrachloride	0.5	<10	<1	<1	92.7	96.0	810.6	710.7	536.6	39.2	39.0	<500	31.0	<100	84.0	<100	<100	<100	211.8	<1000	<10	<0.5	2.1	<1	<10	19.4	27.7	49.8	<100	<100	<10	8.1	<50	<10	<10	<1	<1	2.8
Chloroform	100	<10	<1	<3	<30	<50	<600	<1500	<300	<3	0.96	<1500	<20	<300	1.7	<300	<300	<300	<300	<300	<30	<0.5	<3	<3	<30	<30	<30	10.5	<300	<300	<30	1.6	<150	<30	<30	<3	<3	<3
Dibromochloromethane		<20	<2	<2	<20	<50	<200	<1000	<200	<2	<0.5	<1000	<20	<200	<0.5	<200	<200	<200	<200	<2000	<20	<0.5	<2	<2	<20	<20	<20	<2	<200	<200	<20	<0.5	<100	<20	<20	<2	<2	<2
Dibromomethane		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,1-Dichloroethane	5	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,2-Dichloroethane	0.5	<20	<2	<2	<20	<50	<200	<1000	<200	<2	<0.5	<1000	<20	<200	<0.5	<200	<200	<200	<200	<2000	<20	<0.5	<2	<2	<20	<20	<20	<2	<200	<200	<20	<0.5	<100	<20	<20	<2	<2	<2
1,1-Dichloroethene	6	<10	<1	<1	<10	<50	<100	<500	<100	3.8	3.3	<500	<20	<100	9.0	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	2.9	<100	<100	<10	1.3	<50	<10	<10	<1	<1	<1
cis-1,2-Dichloroethene	6	<10	<1	<1	<10	<50	<100	<500	<100	2.6	3.0	<500	<20	<100	1.3	<100	<100	<100	<100	<1000	<10	<0.5	1.4	<1	<10	<10	<10	7.0	<100	<100	30.3	24.0	<50	11.4	<10	14.8	9.4	13.1
trans-1,2-Dichloroethene	10	<10	<1	<1	<10	<50	<100	<500	<100	2.4	2.2	<500	<20	<100	0.64	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	4.6	<100	<100	<10	13.0	<50	<10	<10	12.1	5.9	9.5
1,3-Dichloropropane		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,1-Dichloropropene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
cis-1,3-Dichloropropene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
trans-1,3-Dichloropropene		<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Methylene Chloride	5	<10	<1	<1	<10	<100	<100	<500	<100	<1	<1	<500	47.0	<100	<1	<100	<100	<100	<100	<1000	<10	<1	<1	<1	<10	<10	<10	<1	<100	<100	<10	<1	<50	<10	<10	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<2	<2	27.8	<50	<200	<1000	<200	3.8	3.9	<1000	<20	<200	17.0	<200	<200	<200	<200	<2000	<10	<0.5	7.1	3.3	<10	28.0	34.9	59.7	<200	<200	<10	1.7	<100	<20	<20	<2	<2	<2
1,1,2,2-Tetrachloroethane	1	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Tetrachloroethene	5	1,450	422	43.1	9,692	13,000	40,076	49,953	36,062	7,017	6,800	14,007	13,000	9,644	11,000	3,498	3,367	13,239	52,719	41,037	57.6	55.0	4,350	1,330	3,910	15,200	16,700	24,100	10,500	2,990	2,590	440.0	1,300	374.0	152.0	457.0	317.0	1,170
1,1,1-Trichloroethane	200	<10	1.0	<1	98.8	110.0	850.5	542.2	439.2	23.1	22.0	<500	24.0	<100	31.0	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<1	<1	80.2	<50	282.0	<500	<100	<1	<0.5	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Trichloroethene	5	108.0	14.5	1.8	1,599	1,900	15,953	9,193	8,210	339.0	260.0	1,426	1,200	1,101	1,100	351.4	361.4	550.9	3,226	3,925	<10	<0.5	88.8	30.6	126.0	707.0	901.0	1,200	501.0	320.0	581.0	120.0	289.0	119.0	18.2	225.0	111.0	137.0
Freon-113	1200	<10	<1	<1	<10	<50	<100	<500	<100	<1	<0.5	<500	<30	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	<0.5	<50	<10	<10	<1	<1	<1
Vinyl Chloride	0.5	<10	<1	<1	<10	<50	<100	<500	<100	<1	0.65	<500	<20	<100	<0.5	<100	<100	<100	<100	<1000	<10	<0.5	<1	<1	<10	<10	<10	<1	<100	<100	<10	0.96	<50	<10	<10	<1	<1	<1
Total Halogenated Hydrocarbons		1,558	437.5	44.9	11,591	15,106	57,972	60,400	45,247	7430.9	7,135	15,433	14,302	10,745	12,245	3,849	3,728	13,790	56,157	44,961	57.6	55.0	4449.4	1363.9	4,036	15,954	17,664	25,435	11,001	3,310	3,201	610.66	1,589	504.4	170.2	708.9	443.3	1332.4
Total Concentration of VOCs		1,558	437.5	44.9	11,591	15,106	57,972	60,400	45,247	7430.9	7,136	15,433	14,302	10,745	12,246	3,849	3,728	13,790	56,157	44,961	57.6	55.0	4449.4	1363.9	4,036	15,954	17,664	25,438	11,001	3,310	3,201	610.66	1,589	504.4	170.2	708.9	443.3	1332.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-24 Dec-95 (G)	Dec-95 (G)	Jan-96 (G)	(D)*	Mar-96	Jun-96	Sep-96	(D)*	Nov-96	(D)*	Mar-97	(D)*	Jun-97	(D)*	Sep-97	(D)*	Dec-97	Mar-98	Jun-98	(D)*	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99*	(D)*	Mar-00	(D)*	May-00	(D)*	Sep-00	(D)*
Aromatic or Non-Halogenated Hydrocarbons																																		
Benzene	1	<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Bromobenzene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
n-Butylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
sec-Butylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
ter-Butylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,3-Dichlorobenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,4-Dichlorobenzene	5	<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	0.87	<100	<100	<100	<100	<100	0.60	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Ethylbenzene	300	<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Hexachlorobutadiene		<20	<2	<100	<300	<20	<2	<150	<600	<30	<700	<300	<50	<300	<0.5	<300	<100	<300	<300	<300	<0.5	<300	<30	<300	<150	<1500	<200	<200	<150	<10	<300	<0.5	<1500	<900
Isopropylbenzene		<10	<1	<50	<300	<10	<1	<100	<600	<20	<700	<200	<50	<200	<0.5	<200	<100	<200	<200	<200	<0.5	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	<0.5	<1000	<900
p-Isopropyltoluene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Naphthalene		<10	<1	<50	<300	<10	<1	<100	<600	<20	<700	<200	<50	<200	<0.5	<200	<100	<200	<200	<200	<0.5	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	<0.5	<1000	<900
n-Propylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Toluene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,2,3-Trichlorobenzene	150	<10	<1	<50	<300	<10	<1	<100	<600	<20	<700	<200	<50	<200	<0.5	<200	<100	<200	<200	<200	<0.5	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	<0.5	<1000	<900
1,2,4-Trichlorobenzene	5	<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,2,4-Trimethylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,3,5-Trimethylbenzene		<20	<2	<100	<300	<20	<2	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Xylenes, total	1750	<20	<2	<100	<600	<20	<2	<100	<2000	<20	<2000	<200	<100	<200	<1	<200	<200	<200	<200	<200	<1	<200	<20	<200	<100	<1000	<300	<300	<100	<30	<200	<1	<1000	<2000
Total Aromatic Hydrocarbons															0.87						0.60													
Halogenated Non-Aromatic Hydrocarbons																																		
Bromodichloromethane	100	<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Bromoform		<20	<2	<100	<300	<20	1.8	<100	<600	<20	<700	<200	<50	<200	2.3	<200	<100	<200	<200	<200	1.3	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	<0.5	<1000	<900
Bromomethane		<20	<2	<100	<300	<20	<2	<200	<600	<40	<700	<400	<50	<400	<0.5	<400	<100	<400	<400	<400	<0.5	<400	<40	<400	<200	<2000	<200	<200	<200	<10	<400	<0.5	<2000	<900
Carbon Tetrachloride	0.5	156.0	3.7	378.0	550.0	538.0	308.0	588.0	740.0	1064	970.0	549.0	540.0	806.0	690.0	697.0	930.0	702.0	497.0	396.0	440.0	520.0	801.0	406.0	295.0	<500	570.0	510.0	578.0	340.0	324.0	190.0	509.1	<900
Chloroform	100	<10	51.1	<50	<300	39.1	15.4	<50	<600	19.2	<700	<100	<50	<100	13.0	<100	<100	<100	<100	<100	10.0	<100	14.5	<100	<50	<500	<200	<200	<50	13.0	<100	11.0	<1500	<900
Dibromochloromethane		<10	<1	<50	<300	<10	<1	<100	<600	<20	<700	<200	<50	<200	<0.5	<200	<100	<200	<200	<200	<0.5	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	<0.5	<1000	<900
Dibromomethane		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,1-Dichloroethane	5	18.0	1.8	<50	<300	39.2	32.9	<50	<600	22.6	33.0	<100	<50	<100	24.0	<100	<100	<100	<100	<100	22.0	<100	20.8	<100	<50	<500	<200	<200	<50	17.0	<100	17.0	<500	<900
1,2-Dichloroethane	0.5	<10	<1	<50	<300	<10	<1	<100	<600	<20	<700	<200	<50	<200	1.6	<200	<100	<200	<200	<200	1.4	<200	<20	<200	<100	<100	<200	<200	<100	<10	<200	1.5	<1000	<900
1,1-Dichloroethene	6	42.6	7.3	160.0	<300	108.0	137.0	92.5	<600	107.0	140.0	<100	99.0	<100	100.0	<100	110.0	<100	<100	<100	70.0	<100	76.6	<100	<50	<500	<200	<200	65.7	53.0	<100	49.0	<500	<900
cis-1,2-Dichloroethene	6	605.0	41.6	623.0	630.0	830.0	720.0	549.0	670.0	575.0	770.0	526.0	520.0	480.0	450.0	417.0	570.0	390.0	630.0	399.0	530.0	414.0	560.0	480.0	387.0	<500	460.0	460.0	442.0	360.0	508.0	320.0	<500	<900
trans-1,2-Dichloroethene	10	<10	<1	<50	<300	15.8	21.7	<50	<600	11.0	<700	<100	<50	<100	15.0	<100	<100	<100	<100	<100	13.0	<100	10.0	<100	<50	<500	<200	<200	<50	11.0	<100	17.0	<500	<900
1,1-Dichloropropene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
1,3-Dichloropropane		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
cis-1,3-Dichloropropene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
trans-1,3-Dichloropropene		<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Methylene Chloride	5	<10	<1	<50	<600	<10	<1	<50	<2000	<10	<2000	<100	<100	<100	1.1	<100	<200	<100	<100	<100	<1	<100	<10	<100	<50	<500	<300	<300	<50	<30	<100	<1	<500	<2000
1,1,1,2-Tetrachloroethane		<10	<1	<50	<300	<10	25.6	<100	<600	<20	<700	<200	<50	<200	26.0	<200	<100	<200	<200	<200	19.0	<200	<20	<200	<100	<1000	<200	<200	<100	<10	<200	12.0	<1000	<900
1,1,2,2-Tetrachloroethane	1	<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<0.5	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Tetrachloroethene	5	11,000	1870	25,500	18,000	21,800	21,800	27,900	29,000	33,200	35,000	23,440	20,000	23,700	24,000	26,000	32,000	27,200	16,500	15,600	17,000	17,400	24,900	15,400	12,800	16,400	19,000	18,000	18,000	13,000	17,400	9,200	18,212	21,000
1,1,1-Trichloroethane	200	<10	<1	<50	<300	28.5	33.2	<50	<600	23.7	<700	<100	<50	<100	22.0	<100	<100	<100	<100	<100	12.0	<100	13.0	<100	<50	<500	<200	<200	<50	<10	<100	5.6	<500	<900
1,1,2-Trichloroethane	5	<10	<1	<50	<300	<10	2.6	<50	<600	<10	<700	<100	<50	<100	0.58	<100	<100	<100	<100	<100	<0.5	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	1.0	<500	<900
Trichloroethene	5	5750	560	10,075	9900	8440	5900	10,510	11,000	12,900	14,000	7810	7500	10,700	9300	9,000	12,000	9,600	9,240	5,410	5,600	8,670	10,600	5,030	4,760	8,100	8,500	8,600	5,460	5,000	6,040	3,500	6,517	6,600
Freon-113	1200	<10	<1	<50	<300	<10	<1	<50	<600	<10	<700	<100	<50	<100	<50	<100	<100	<100	<100	<100	0.58	<100	<10	<100	<50	<500	<200	<200	<50	<10	<100	<0.5	<500	<900
Vinyl Chloride	0.5	15.1	2.1	<50	<300	55.8	60.3	<50	<600	29.1	<700	<100	<50	<100	38.0	<100	<100	<100	<100	<100	59.0	<100	36.8	<100	<50	<500	<200	<200	<50	26.0	<100	26.0	<500	<900
Total Halogenated Hydrocarbon		17,586.7	2537.6	36,736	29,080	31,894	29,059	39,640	41,410	47,952	50,913	32,325	28,659	35,686	34,684	36,114	45,610	37,892	26,867	21,805	23,778	27,004	37,033	21,316	18,242	24,500	28,530	27,570	24,546	18,820	24,272	13,350	25,238	27,600
Total Concentration of VOCs		17,586.7	2537.6	36,736	29,080	31,894	29,059	39,640	41,410	47,952	50,913	32,325	28,659	35,686	34,684	36,114	45,610	37,892	26,867	21,805	23,779	27,004	37,033	21,316	18,242	24,500	28,530	27,570	24,546	18,820	24,272	13,350	25,238	27,600

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-24 (continued) Dec-00	(D)*	Mar-01	(D)*	Jun-01	(D)*	Sep-01	(D)*	Dec-01	(D)*	Mar-02	(D)*	Jun-02	(D)*	Sep-02	(D)*	Nov-02	(D)*	Feb-03	(D)*	Apr-03	(D)*	Jul-03	Aug-03	Sep-03	(D)*	Dec-03	(D)*	Jan-04	Mar-04	May-04	(D)*	Aug-04	(D)*
Aromatic or Non-Halogenated Hydrocarbons																																			
Benzene	1	<200	<1000	<500	<0.5	<500	0.50	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Bromobenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
n-Butylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
sec-Butylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
ter-Butylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,3-Dichlorobenzene		<200	<1000	<500	<0.5	<500	0.51	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,4-Dichlorobenzene	5	<200	<1000	<500	0.59	<500	0.52	<500	0.83	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	0.50	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Ethylbenzene	300	<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Hexachlorobutadiene		<600	<1000	<1500	<0.5	<1500	<0.5	<1500	<0.5	<1500	<50	<1500	<30	<1500	<30	<1500	<20	<1500	<300	<1500	<0.5	<300	<10	<300	<300	<1500	<0.5	<300	<5	<300	<300	<150	<20	<150	<1
Isopropylbenzene		<400	<1000	<1000	<0.5	<1000	<0.5	<1000	<0.5	<1000	<50	<1000	<30	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
p-Isopropyltoluene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Naphthalene		<400	<1000	<1000	<0.5	<1000	<0.5	<1000	<0.5	<1000	<50	<1000	<30	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
n-Propylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Toluene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,2,3-Trichlorobenzene	150	<400	<1000	<1000	<0.5	<1000	<0.5	<1000	<0.5	<1000	<50	<1000	52.0	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
1,2,4-Trichlorobenzene	5	<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,2,4-Trimethylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,3,5-Trimethylbenzene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Xylenes, total	1750	<400	<2000	<1000	<1	<1000	<1	<1000	<1	<1000	<100	<1000	<50	<1000	<50	<1000	<30	<1000	<500	<1000	<1	<200	<20	<200	<200	<1000	<1	<200	<10	<200	<200	<100	<30	<100	<2
Total Aromatic Hydrocarbons					0.59		1.53		0.83				52.0								0.50														
Halogenated Non-Aromatic Hydrocarbons																																			
Bromodichloromethane	100	<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Bromoform		<400	<1000	<1000	3.0	<1000	0.79	<1000	<0.5	<1000	<50	<1000	<30	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
Bromomethane		<800	<1000	<2000	<1	<5000	<1	<5000	2.2	<5000	<100	<5000	<50	<5000	<30	<5000	<30	<5000	<500	<5000	<1	<1000	<20	<1000	<1000	<5000	<1	<1000	<10	<1000	<1000	<500	<20	<500	<1
Carbon Tetrachloride	0.5	599.8	<1000	631.6	420.0	<500	310.0	729.3	390.0	821.9	690.0	<500	400.0	<500	360.0	510.3	400.0	721.1	590.0	<500	180.0	130.0	120.0	124.0	<100	<500	75.0	<100	54.0	<100	<100	<50	<20	<50	7.7
Chloroform	100	<600	<1000	<1500	13.0	<1500	14.0	<1500	14.0	<1500	<50	<1500	<30	<1500	<30	<1500	<20	<1500	<300	<1500	6.7	<300	<10	<300	<300	<1500	7.5	<300	<5	<300	<300	<150	<20	<150	2.2
Dibromochloromethane		<400	<1000	<1000	<0.5	<1000	<0.5	<1000	<0.5	<1000	<50	<1000	<30	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
Dibromomethane		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,1-Dichloroethane	5	<200	<1000	<500	17.0	<500	20.0	<500	15.0	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	13.0	<100	10.0	<100	<100	<500	7.2	<100	<5	<100	<100	<50	<20	<50	1.9
1,2-Dichloroethane	0.5	<400	<1000	<1000	1.8	<1000	1.7	<1000	1.6	<1000	<50	<1000	<30	<1000	<30	<1000	<20	<1000	<300	<1000	<0.5	<200	<10	<200	<200	<1000	0.82	<200	<5	<200	<200	<100	<20	<100	<1
1,1-Dichloroethene	6	<200	<1000	<500	65.0	<500	56.0	<500	73.0	<500	130.0	<500	64.0	<500	57.0	<500	68.0	<500	<300	<500	55.0	<100	34.0	<100	<100	<500	21.0	<100	14.0	<100	<100	<50	<20	<50	5.4
cis-1,2-Dichloroethene	6	312.7	<1000	<500	320.0	<500	384.0	<500	300.0	<500	360.0	<500	310.0	<500	290.0	<500	240.0	<500	<300	<500	290.0	230.0	260.0	129.0	<100	<500	130.0	118.0	86.0	<100	137.0	56.4	50.0	<50	33.0
trans-1,2-Dichloroethene	10	<200	<1000	<500	11.0	<500	10.0	<500	9.1	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	8.9	<100	<10	<100	<100	<500	2.3	<100	<5	<100	<100	<50	<20	<50	<1
1,1-Dichloropropene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
1,3-Dichloropropane		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
cis-1,3-Dichloropropene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
trans-1,3-Dichloropropene		<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Methylene Chloride	5	<200	<2000	<500	<1	<500	0.71	<500	<1	<500	<100	<500	190.0	<500	<50	<500	<30	<500	<500	<500	<1	<100	140.0	<100	<100	<500	<1	<100	<10	<100	<100	<50	66.0	<50	<1
1,1,1,2-Tetrachloroethane		<400	<1000	<1000	22.0	<1000	15.0	<1000	33.0	<1000	<50	<1000	<30	<1000	<30	<1000	29.0	<1000	<300	<1000	12.0	<200	<10	<200	<200	<1000	<0.5	<200	<5	<200	<200	<100	<20	<100	<1
1,1,2,2-Tetrachloroethane	1	<200	<1000	<500	<0.5	<500	<0.5	<500	<0.5	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	<0.5	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Tetrachloroethene	5	25,282	#####	28,368	18,000	16,090	11,000	25,513	18,000	31,825	33,000	16,728	14,000	17,163	17,000	23,850	24,000	30,882	24,000	13,100	11,000	9,330	8,400	6,930	6,280	6,260	1,800	3,450	3,000	1,510	3,580	1,570	1,100	653.0	570.0
1,1,1-Trichloroethane	200	<200	<1000	<500	6.7	<500	5.2	<500	8.7	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	4.1	<100	<10	<100	<100	<500	0.94	<100	<5	<100	<100	<50	<20	<50	<1
1,1,2-Trichloroethane	5	<200	<1000	<500	1.0	<500	1.2	<500	1.4	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	1.0	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Trichloroethene	5	9,100	#####	7,677	5,800	5,282	4,800	9,155	7,500	10,906	10,000	6,458	5,400	5,908	5,600	7,996	7,200	8,880	7,600	3,650	3,100	2,120	1,800	1,830	1,920	1,490	1,300	1,030	800.0	463.0	937.0	434.0	340.0	149.0	130.0
Freon-113	1200	<200	<1000	<500	<0.5	<500	<0.5	<500	0.61	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	0.94	<100	<10	<100	<100	<500	<0.5	<100	<5	<100	<100	<50	<20	<50	<1
Vinyl Chloride	0.5	<200	<1000	<500	24.0	<500	24.0	<500	27.0	<500	<50	<500	<30	<500	<30	<500	<20	<500	<300	<500	28.0	<100	16.0	<100	<100	<500	2.3	<100	<5	<100	<100	<50	<20	<50	<1
Total Halogenated Hydrocarbons		35,294	#####	36,676	24,705	21,372	16,643	35,396	26,376	43,553	44,180	23,186	20,364	23,071	23,307	32,356	31,937	40,483	32,190	16,750	14,700	11,810	10,780	9,013	8,200	7,750	3,347	4,598	3,954	1,973	4,654	2,060	1,556	802.0	750.2
Total Concentration of VOCs		35,294	#####	36,676	24,705	21,372	16,644	35,396	26,376	43,553	44,180	23,186	20,416	23,071	23,307	32,356	31,937	40,483	32,190	16,750	14,700	11,810	10,780	9,013	8,200	7,750	3,347	4,598	3,954	1,973	4,654	2,060	1,556	802.0	750.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-25 Jan-96 (G)	(D)* (G)	Mar-96	Jun-96 (G)	Sep-96*	(D)	Nov-96	Mar-97	Jun-97	Sep-97	Dec-97	(D)*	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Oct-99 (G)	Nov-99
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Bromobenzene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
n-Butylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
sec-Butylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
ter-Butylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,2-Dichlorobenzene	600	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,4-Dichlorobenzene	5	<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Ethylbenzene	300	<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Hexachlorobutadiene		<20	<80	<2	<2	<2	<30	<15	<15	<30	<300	<3	<0.5	<15	<3	<30	<3	<15	<15	<3	<15	<30
Isopropylbenzene		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
p-Isopropyltoluene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Naphthalene		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
n-Propylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Toluene	150	<10	<80	<1	1.5	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,2,4-Trichlorobenzene	5	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,2,4-Trimethylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,3,5-Trimethylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Xylenes, total	1750	<20	<200	<2	<2	<4	<20	<10	<10	<20	<200	<2	<1	<10	<2	<20	<2	<10	<10	<2	<10	<20
Total Aromatic Hydrocarbons					1.5																	
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Bromoform		<20	<80	<2	<2	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
Carbon Tetrachloride	0.5	<10	0.7	<1	5.0	13.0	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Chloroform	100	<10	<80	1.1	1.5	2.2	<10	<5	<5	<10	<100	<1	0.81	<5	2.7	<10	6.0	<5	<5	2.4	<5	<10
Dibromochloromethane		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
Dibromomethane		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,1-Dichloroethane	5	<10	0.8	<1	2.3	2.4	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,2-Dichloroethane	0.5	<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
1,1-Dichloroethene	6	13.1	4.7	21.3	57.4	78.0	59.0	<5	8.1	11.2	<100	<1	0.88	<5	<1	<10	<1	<5	<5	2.7	<5	<10
cis-1,2-Dichloroethene	6	27.1	20.0	61.2	42.8	32.0	27.8	23.7	5.7	10.6	<100	4.2	5.0	7.6	2.3	<10	2.3	<5	<5	6.6	5.3	<10
trans-1,2-Dichloroethene	10	<10	0.8	2.0	1.6	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,3-Dichloropropane		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,1-Dichloropropene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
cis-1,3-Dichloropropene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
trans-1,3-Dichloropropene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Methylene Chloride	5	<10	<200	<1	<1	<4	<10	<5	<5	<10	<100	<1	<1	<5	<1	<10	<1	<5	<5	<1	<5	<10
1,1,1,2-Tetrachloroethane		<10	4.8	<1	<1	23.0	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20
1,1,2,2-Tetrachloroethane	1	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Tetrachloroethene	5	6280	4000	8100	12,300	16,000	12,600	6440	1990	2710	2570	593.0	710.0	1040	578.0	1150	147.0	216.0	418.0	4,620**	588.0	707.0
1,1,1-Trichloroethane	200	46.2	35.0	113.0	203.0	100.0	111.0	37.2	7.4	10.0	<100	1.7	2.2	<5	1.7	<10	<1	<5	<5	1.1	<5	<10
1,1,2-Trichloroethane	5	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Trichloroethene	5	136.0	110.0	171.0	225.0	610.0	731.0	273.0	92.5	134.0	107.0	16.4	17.0	46.2	30.0	59.9	4.0	<5	11.8	39.1	47.2	44.0
Freon-113	1200	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Vinyl Chloride	0.5	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10
Total Halogenated Hydrocarbons		6502.4	4176.8	8469.6	12,838.6	16,860.6	13,528.8	6773.9	2103.7	2875.8	2677.0	615.3	735.89	1093.8	614.7	1209.9	159.3	216.0	429.8	4671.9	640.5	751.0
Total Concentration of VOCs		6502.4	4176.8	8469.6	12,840.1	16,860.6	13,528.8	6773.9	2103.7	2875.8	2677.0	615.3	735.89	1093.8	614.7	1209.9	159.3	216.0	429.8	4671.9	640.5	751.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
**=Subsequent sample did not confirm result

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	7B-95-25 (Cont'd)																					
		Mar-00	May-00	Sep-00	Nov-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	May-02	Sep-02	Nov-02	Feb-03	Apr-03	Jul-03*	Jul-03*	Aug-03*	Sep-03	Dec-03	Mar-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Bromobenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	600	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<30	<3	<30	<3	<300	<3	<30	<3	<3	<30	<30	<3	<3	<5	<0.5	<0.5	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Naphthalene		<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<10	<1	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane	100	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Bromoform		<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<1	<30	<3	<30	<3	<300	<3	<30	<3	<3	<30	<30	<3	<3	<5	<0.5	<0.5	<3	<3	<3	<3	<3
Dibromochloromethane		<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
Dibromomethane		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<10	<1	<10	<1	<100	1.8	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	12.2	31.3	<10	16.7	<100	10.6	<10	1.0	18.6	10.1	<10	4.1	2.4	14.0	3.6	0.75	<1	5.9	1.9	<1	<1
trans-1,2-Dichloroethene	10	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	8.6	<0.5	<0.5	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<20	<2	<20	<2	<200	<2	<20	<2	<2	<20	<20	<2	<2	<5	<0.5	<0.5	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	1	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Tetrachloroethene	5	176.0	160.0	565.2	404.1	152.4	191.4	559.8	199.5	92.4	100.9	238.4	298.8	233.0	139.0	2,800	64.0	68.0	58.4	14.7	7.7	5.1	3.6
1,1,1-Trichloroethane	200	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<10	2.9	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	9.3	<10	25.6	25.6	6.6	<100	31.7	<10	1.6	6.5	21.4	29.8	5.3	2.3	320.0	2.4	1.2	<1	1.2	2.3	<1	<1
Freon-113	1200	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<10	<1	<10	<1	<100	<1	<10	<1	<1	<10	<10	<1	<1	<5	<0.5	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		185.3	172.2	625.0	429.7	175.7	191.4	603.9	199.5	95.0	126.0	269.9	328.6	242.4	143.7	3,142.6	70.0	69.95	58.4	21.8	11.9	5.1	3.6
Total Concentration of VOCs		185.3	172.2	625.0	429.7	175.7	191.4	603.9	199.5	95.0	126.0	269.9	328.6	242.4	143.7	3,142.6	70.0	69.95	58.4	21.8	11.9	5.1	3.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
**=Subsequent sample did not confirm result

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	16-94-13 (well is on semi-annual sampling)																			
		Dec-94	(D)*	Feb-95*	Mar-95*	May-95*	Jul-95	Sep-95	Dec-95	Mar-96	Jun-96	Sep-96	Nov-96	(D)*	Mar-97	(D)*	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<9	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<9	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<10	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<20	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane		<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<1	5.7	2.5	2.1	2.1	3.6	2.4	3.2	5.5	2.4	6.7	3.1	<9	3.1	2.8	3.2	2.4	1.0	3.3	2.9
1,1-Dichloroethane	5	<1	<5	0.87	0.74	0.75	1.3	<1	1.2	1.1	<1	<1	<1	<9	1.1	1.1	1.1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<9	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	20.4	8.9	6.0	5.6	4.9	10.3	5.9	14.1	7.0	4.8	<1	9.2	13.0	6.9	6.2	5.4	4.4	4.1	5.7	5.3
cis-1,2-Dichloroethene	6	<1	<5	0.96	1.2	1.4	3.0	1.6	1.7	2.1	1.7	<1	1.1	<9	1.2	1.3	1.1	<1	<1	1.2	2.3
trans-1,2-Dichloroethene	10	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	540.0	240.0	170.0	170.0	150.0	230.0	153.0	262.0	162.0	144.0	<1	255	240	171	120	129	94.7	116	116	126
1,1,1-Trichloroethane	200	11.1	5.1	3.7	3.8	3.3	6.3	2.9	4.0	4.9	2.3	<1	2.5	<9	1.6	2.0	1.6	1.0	1.0	1.2	1.4
1,1,2-Trichloroethane	5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	98.8	48.0	34.0	29.0	29.0	37.8	26.9	50.3	37.6	23.1	30.8	56.8	55.0	38.4	27.0	41.2	27.7	31.1	37.5	28.1
Freon-113	1200	<1	<5	<0.5	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<9	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		670.3	307.7	218.03	212.44	191.45	292.3	192.7	336.5	220.2	178.3	37.5	327.7	308.0	223.3	160.4	182.6	130.2	153.2	164.9	166.0
Total Concentration of VOCs		670.3	307.7	218.03	212.44	191.45	292.3	192.7	336.5	220.2	178.3	37.5	327.7	308.0	223.3	160.4	182.6	130.2	153.2	164.9	166.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	16-94-13 (continued)													
		Sep-98	Dec-98	Feb-99	May-99	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Sep-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						1.0									
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	1.8	2.4	1.9	1.5	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	3.5	3.8	2.5	2.4	4.6	4.0	3.4	5.2	4.6	4.3	3.1	<1	2.5	2.3
cis-1,2-Dichloroethene	6	1.2	1.2	1.1	1.2	1.4	1.1	1.1	1.1	1.2	<1	<1	<1	1.3	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	112	103	92	84	90.7	85.8	68.2	90.1	77.2	76.3	70.8	53.1	40.3	32.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	21.9	25.5	22.2	17.3	25.9	23.2	21.7	26.3	24.7	22.7	22.5	18.4	16.0	11.6
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		140.4	135.9	119.7	106.4	122.6	114.1	94.4	122.7	107.7	103.3	96.4	71.5	60.1	45.9
Total Concentration of VOCs		140.4	135.9	119.7	106.4	123.6	114.1	94.4	122.7	107.7	103.3	96.4	71.5	60.1	45.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	16-95-3 (well is on semi-annual sampling) Jun-95*	(S)	Aug-95	Dec-95	Mar-96	Jun-96	(D)†	Aug-96	Dec-96	Mar-97	May-97	Mar-98	Sep-98	(D)*	Feb-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Feb-03	Aug-03*	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
n-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
sec-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
ter-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Ethylbenzene	300	<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Isopropylbenzene		<0.5	<1	<1	<1	<1	<1	<5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Naphthalene		<0.5	<1	<1	<1	<1	<1		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
n-Propylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trichlorobenzene	5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Bromodichloromethane		<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Chloroform	100	3.8	8.0	6.1	9.4	19.0	8.5	6.7	7.2	10.4	11.1	8.5	13.9	6.1	7.4	8.0	7.8	8.9	7.0	8.7	7.5	7.7	5.6	6.5	6.3	7.7	5.8
1,1-Dichloroethane	5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2-Dichloroethane	0.5	<0.5	<1	<1	<1	<1	<1	<5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
1,1-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
cis-1,2-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	1.5	<1	<1	2.0	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	7.7	<0.5	<0.5	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Trichloroethene	5	15.0	27.1	27.9	39.5	34.6	24.4	27.0	18.9	43.3	34.2	26.5	36.5	19.5	23.0	25.2	23.0	20.8	19.2	22.6	23.9	18.9	18.4	21.5	17.0	22.0	15.1
Freon-113	1200	<0.5	<5	<5	<1	<1	<1		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Total Halogenated Hydrocarbons		18.8	36.6	34.0	48.9	55.6	32.9	33.7	26.1	53.7	45.3	35.0	50.4	25.6	30.4	33.2	30.8	29.7	26.2	31.3	31.4	26.6	24.0	35.7	23.3	29.7	20.9
Total Concentration of VOCs		18.8	36.6	34.0	48.9	55.6	32.9	33.7	26.1	53.7	45.3	35.0	50.4	25.6	30.4	33.2	30.8	29.7	26.2	31.3	31.4	26.6	24.0	35.7	23.3	29.7	20.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by California Laboratory Services
* = Analysis by BC Laboratories

(D) = Duplicate sample
(S) = Split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-93-15 (well is on annual sampling) Jan-94	(D)*	May-94	(D)*	Aug-94	Dec-94*	(D)*	Jan-95*	May-95*	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Mar-01	Aug-01	Feb-02	Sep-02	Aug-03	Jan-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																															
Benzene	1	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																															
Halogenated Non-Aromatic Hydrocarbons																															
Bromodichloromethane		<1	<0.5	<1	0.9	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	19.4	16.0	<1	1.6	1.5	1.0	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	0.51	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	3.5	3.3	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	1.3	1.3	1.2	<1	1.2	1.2	2.0	2.0	2.5	2.0	2.8	1.5	1.6	1.6	1.9	1.3	1.5	2.5	1.8	3.2	1.9	2.6	1.7	2.6	1.7	1.3	<1	2.3	1.0
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.3	20.7	18.61		2.8	2.7	3.0	2.52	2.5	2.0	2.8	2.9	1.6	1.6	1.9	1.3	1.5	2.5	1.8	3.2	5.4	2.6	1.7	2.6	1.7	1.3	3.5	5.6	1.0
Total Concentration of VOCs			1.3	20.7	18.61		2.8	2.7	3.0	2.52	2.5	2.0	2.8	2.9	1.6	1.6	1.9	1.3	1.5	2.5	1.8	3.2	5.4	2.6	1.7	2.6	1.7	1.3	3.5	5.6	1.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-94-12 (well is on annual sampling)																									
		Dec-94	Dec-94 (G)'	(D) (G)*	Mar-95*	May-95*	Aug-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	Jun-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Feb-01	Sep-01	Feb-02	Sep-02	Aug-03	Jan-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<0.5	<0.5	0.74	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<0.5	<0.5	0.80	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						1.54																					
Halogenated Non-Aromatic Hydrocarbons																											
Bromodichloromethane		<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	3.1	3.0	1.5	2.6	<1	<1	5.5	<1	<1	<1	1.1	<1	5.1	2.2	3.0	2.4	4.6	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<0.5	<0.5	0.59	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	2.2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	0.54	0.56	0.71	5.5	<1	1.2	5.2	4.3	<1	<1	<1	4.5	1.5	<1	<1	<1	2.1	<1	<1	<1	<1	<1	5.0	2.2	1.3
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	1.2	1.2	4.5	8.3	4.8	4.2	20.7	4.8	3.0	<1	4.9	<1	13.2	4.0	4.7	4.3	10.6	3.9	3.5	4.5	2.9	3.2	3.0	4.4	3.0
Freon-113	1200	<1	1.3	1.3	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			6.14	7.06	6.71	16.99	4.8	5.4	33.6	9.1	3.0		6.0	4.5	19.8	6.2	7.7	6.7	17.3	3.9	3.5	4.5	2.9	3.2	8.0	6.6	4.3
Total Concentration of VOCs			6.14	7.06	6.71	18.53	4.8	5.4	33.6	9.1	3.0		6.0	4.5	19.8	6.2	7.7	6.7	17.3	3.9	3.5	4.5	2.9	3.2	8.0	6.6	4.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-95-5 (well is on annual sampling)																										
		Sep-95	(S)*	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Mar-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Aug-03*	Jan-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																								1.0				
Halogenated Non-Aromatic Hydrocarbons																												
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	1.8	1.3	1.4	2.0	1.6	1.4	<1	1.9	1.4	<1	1.2	2.3	2.8	<1	<1	1.2	1.4	1.1	1.2	<1	<1	1.3	1.7	<1	0.58	1.3	1.0
Chloroform	100	2.8	2.4	3.2	9.3	4.1	1.8	<1	3.1	2.0	1.3	2.4	4.5	6.3	3.0	3.8	3.0	3.0	3.3	<1	<3	<3	<3	3.6	<3	3.0	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<1	0.77	<1	<1	<1	<2	<2	<2	<2	<2	1.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	1.8	1.3	2.0	1.3	1.7	<1	<1	<1	1.1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	3.9	4.0	4.4	2.2	2.9	3.0	1.6	1.4	1.9	2.6	4.8	1.7	2.0	1.8	2.2	12.8	1.4	2.5	2.0	1.9	<1	1.9	<1	1.1	6.6	2.1	1.2
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	17.1	15.0	17.8	11.4	9.8	12.5	6.4	8.2	8.5	8.4	14.4	10.7	11.7	7.0	8.6	6.9	6.7	9.1	6.2	6.0	5.5	6.8	5.5	4.3	3.3	4.2	5.3
Freon-113	1200	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbo		27.4	24.77	28.8	26.2	20.1	18.7	8.0	14.6	14.9	12.3	24.0	19.2	25.3	11.8	14.6	23.9	12.5	16.0	10.5	7.9	5.5	10.0	10.8	5.4	13.48	7.6	7.5
Total Concentration of VOCs		27.4	24.77	28.8	26.2	20.1	18.7	8.0	14.6	14.9	12.3	24.0	19.2	25.3	11.8	14.6	23.9	12.5	16.0	10.5	7.9	5.5	10.0	11.8	5.4	13.48	7.6	7.5

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(S) = Split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-95-26 (well is on annual sampling)																							
		Jul-96	(D)*	Jul-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99*	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Mar-02	Sep-02	Aug-03*	Jan-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether									<5	<5	<5		<5	<5	1.3	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons															1.3										
Halogenated Non-Aromatic Hydrocarbons																									
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	3.5	3.7	2.5	<1	<1	1.8	<1	<1	<1	3.9	0.87	<1	<1	2.5	<1	4.0	<1	<1	<1	<1	<1	0.78	<1	<1
Chloroform	100	5.4	5.8	9.2	<1	<1	9.8	6.7	3.3	5.2	10.8	7.0	3.4	3.3	8.7	2.9	10.7	3.6	3.2	<3	3.5	<1	3.5	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<1	0.57	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	3.3	0.77	<1	<1	<1	<1	<1	<1	<1	<1	0.60	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	194.0	170.0	8.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	13.0	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	27.3	35.0	2.5	<1	4.6	1.6	1.5	1.4	1.9	1.5	2.8	1.6	1.7	2.5	2.5†	2.6	2.3	2.2	3.5	2.8	2.9	3.8	2.5	3.0
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbon		233.5	215.84	22.7		4.6	13.2	8.2	4.7	7.1	16.2	11.27	5.0	5.0	13.7	5.4	17.3	5.9	5.4	3.5	6.3	2.9	21.1	2.5	3.0
Total Concentration of VOCs		233.5	215.84	22.7		4.6	13.2	8.2	4.7	7.1	16.2	11.27	5.0	5.0	15.0	5.4	17.3	5.9	5.4	3.5	6.3	2.9	21.1	2.5	3.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
†Compound found in rinse blank at 1.2 µg/L

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-95-27 Apr-96	Jun-96	Jul-96	(D)*	Dec-96*(G)	Mar-97	Jun-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99	May-99	Sep-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	0.58	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												0.58										
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	1.4	<1	<1	<1	<1	<1	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<0.5	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	1.5	0.84	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons					1.5	0.84									1.4							
Total Concentration of VOCs					1.5	0.84						0.58			1.4							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-95-27 (continued)														
		Feb-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																
Total Concentration of VOCs																

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25-98-10 (well is on semi-annual sampling)																		
		Nov-98 (G)	Oct-99	(D)*	Nov-99	Feb-00	May-00	Sep-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03*	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons														1.0						
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	1.7	2.4	2.5	1.5	2.2	2.6	1.4	1.8	1.5	1.7	2.8	2.1	2.7	2.3	2.0	2.0	2.0	2.5	1.4
Chloroform	100	2.9	3.4	3.6	4.3	<3	3.3	<3	3.0	<3	3.1	<3	<3	3.3	<3	4.5	3.1	2.8	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.61	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	1.6	1.9	1.3	1.0	1.6	1.1	<1	<1	<1	1.9	1.6	1.7	1.1	1.2	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	1.3	1.7	2.4	1.6	2.3	2.2	1.8	1.6	1.8	1.8	2.8	1.7	1.6	1.0	1.7	1.1	20.0	1.1	1.6
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	7.7	14.8	15.0	11.0	9.4	12.4	10.6	10.4	10.7	9.9	13.8	11.3	9.7	9.4	9.7	5.9	9.2	6.2	7.4
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		13.6	23.9	25.40	19.7	14.9	22.1	14.9	16.8	14.0	16.5	21.3	16.7	19.0	13.8	19.1	12.1	34.61	9.8	10.4
Total Concentration of VOCs		13.6	23.9	25.40	19.7	14.9	22.1	14.9	16.8	14.0	16.5	21.3	16.7	20.0	13.8	19.1	12.1	34.61	9.8	10.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-95-4 (well is on annual sampling)																
		Jun-95*	(S)	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	May-97	May-98*	Apr-99	Aug-00	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Naphthalene		<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons							1.4											
Total Concentration of VOCs							1.4											

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(S) = Split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-95-15 (well is on semi-annual sampling)																											
		Sep-95	(S)*	Dec-95	Mar-96	Jun-96	Sep-96*	(D)	Nov-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Mar-00	Sep-00	Mar-01	Sep-01	Feb-02	Sep-02	Feb-03	Aug-03	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<20	<20	<20	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<20	<20	<20	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Xylenes, total	1750	<1	<1	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<20	<20	<20	<2	<2	<1	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane		<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Chloroform	100	1.4	1.2	4.6	5.8	5.3	5.8	4.2	5.2	2.8	2.6	4.1	5.7	2.7	3.8	3.3	3.2	3.3	3.2	5.0	<15	4.3	<30	<30	<30	<1	<1	1.5	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	0.68	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<20	<20	<20	<2	<2	<0.5	<2
1,1-Dichloroethene	6	11.1	7.6	155.0	123.0	151.0	120.0	107.0	92.9	89.8	39.9	<1	62.9	64.8	93.2	89.3	114.0	134.0	108.0	133.0	99.8	141.1	100.7	122.3	78.9	67.5	70.0	53.0	78.7
cis-1,2-Dichloroethene	6	<1	<0.5	2.5	2.6	3.1	2.4	1.7	1.4	1.4	1.0	<1	1.4	1.3	2.1	1.9	3.2	3.5	2.7	4.7	3.0	4.1	<10	<10	<10	2.6	3.2	3.1	3.5
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	0.77	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	1.0	<10	<10	<10	<1	<1	0.92	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<1	<1
Tetrachloroethene	5	<1	0.55	1.7	3.2	2.5	3.0	2.0	2.0	1.6	9.4	2.1	5.1	1.8	2.0	1.7	1.6	1.8	2.1	3.8	<5	2.5	<10	<10	<10	2.1	2.3	2.1	1.5
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	0.74	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Trichloroethene	5	11.0	10.0	202.0	304.0	225.0	270.0	287.0	250.0	188.0	162.0	130.0	167.0	157.0	204.0	178.0	186.0	300.0	186.0	295.0	255.5	278.9	324.9	343.1	202.3	194.0	190.0	140.0	152.0
Freon-113	1200	<5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<10	<10	<10	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		23.5	19.35	365.8	438.6	386.9	403.39	401.9	351.5	283.6	214.9	136.2	242.1	227.6	305.1	274.2	308.0	442.6	302.0	441.5	358.3	431.9	425.6	465.4	281.2	266.2	265.5	200.62	235.7
Total Concentration of VOCs		23.5	19.35	365.8	438.6	386.9	403.39	401.9	351.5	283.6	214.9	136.2	242.1	227.6	305.1	274.2	308.0	442.6	302.0	441.5	358.3	431.9	425.6	465.4	281.2	266.2	265.5	200.62	235.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(S) = Split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-98-1 (well is on semi-annual sampling)																						
		Jul-98	(D)*	Sep-98	Dec-98	Feb-99	May-99#	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<6	<3	<3	<30	<30	<30	<30	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	2.4	2.5	1.6	8.2	11.7	5.0	16.5	21.9	17.2	18.7	9.0	18.8	19.7	14.9	<10	14.1	<10	8.6	7.0	6.0	6.3	4.2	2.4
cis-1,2-Dichloroethene	6	1.1	1.6	1.3	4.7	6.3	3.3	6.5	10.1	11.2	9.4	6.0	9.9	10.7	<10	<10	<10	<10	3.0	3.3	4.5	4.8	2.4	1.6
trans-1,2-Dichloroethene	10	<1	<0.5	<1	1.0	1.4	<1	2.5	3.2	3.5	3.1	1.5	2.8	2.8	<10	<10	<10	<10	1.2	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	1.7	6.0	<2	<1	<1	<10	<10	<10	<10	<1	<1	1.4	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Trichloroethene	5	102.4	110.0	74.9	144.0	170.0	120.0	285.0	314.0	306.0	363.0	191.4	220.5	297.7	213.0	191.8	292.1	170.0	164.0	104.2	100.0	103.0	66.3	48.6
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbo		105.9	114.1	77.8	157.9	189.4	128.3	310.5	349.2	339.6	400.2	210.5	252.0	330.9	227.9	191.8	306.2	170.0	176.8	114.5	111.9	114.1	72.9	52.6
Total Concentration of VOCs		105.9	114.1	77.8	157.9	189.4	128.3	310.5	349.2	339.6	400.2	210.5	252.0	330.9	227.9	191.8	306.2	170.0	176.8	114.5	111.9	114.1	72.9	52.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Sample was analyzed after holding time expired

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-98-3 (well is on semi-annual sampling)																											
		Jun-98	(D)*	Sep-98	Dec-98	Mar-99	(D)*	Jun-99	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Nov-03	Feb-04	Jun-04	Sep-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2	<2	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2	<2	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<20	<2	<2	<1	<2	<20	<2	<2	<2	<2	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane		<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	0.51	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<3	<3	<3	<30	<30	<30	<30	<3	<3	<3	<3	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	1.2	1.8	<10	1.4	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2	<2	<2	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	61.9	77.0	50.1	66.6	4.1	5.7	12.1	31.8	43.2	4.3	8.9	9.8	41.6	3.5	57.8	15.8	57.4	65.8	31.9	14.5	8.3	6.9	4.7	4.3	4.0	2.4	3.1	4.0
cis-1,2-Dichloroethene	6	4.4	6.1	<10	4.8	<1	0.57	1.3	<10	3.7	<1	1.3	1.6	2.9	<1	<10	<10	<10	<10	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	1.2	1.3	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	1.8	4.2	<1	<1	<1	<1	<1	3.6	1.2	<1
1,1,1-Trichloroethane	200	<1	0.63	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	0.64	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	390.0	400.0	324.0	352.0	34.5	37.0	128.0	279.0	267.0	111.0	167.0	157.8	274.8	116.8	235.1	229.4	307.3	382.5	228.5	143.6	86.7	97.8	53.3	70.5	48.7	35.7	43.3	42.9
Freon-113	1200	<1	0.51	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbo		458.7	488.49	374.1	424.8	38.6	43.27	141.4	310.8	313.9	115.3	177.2	169.2	319.3	120.3	292.9	245.2	364.7	448.3	263.9	162.3	95.0	105.7	58.0	74.8	52.7	41.7	47.6	46.9
Total Concentration of VOCs		458.7	488.49	374.1	424.8	38.6	43.27	141.4	310.8	313.9	115.3	177.2	169.2	319.3	120.3	292.9	245.2	364.7	448.3	263.9	162.3	95.0	105.7	58.0	74.8	52.7	41.7	47.6	46.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

(D) = Duplicate sample

* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-98-6				25A-98-7 (well is on semi-annual sampling)															
		Nov-99	Feb-00 (G)	May-00 (G)	Oct-01	Dec-99	(D)*	May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Aug-03	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<20	<20	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<20	<20	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Toluene	150	1.4	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<20	<20	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.4																			
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane		<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	1.1	<1	<1	<1	<1	<0.5	<1	<3	<3	<3	<3	<30	<30	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<20	<20	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.0	<1	<1	1.1	6.0	3.9	<1	4.5	1.2	1.1	2.6	<10	<10	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	0.55	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	7.5	1.9	1.8	6.7	<1	<0.5	1.3	<1	<1	2.5	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	0.58	<1	<1	<1	1.1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	5.5	3.2	4.2	3.9	293.0	210.0	106.0	219.9	106.8	93.1	139.1	342.8	194.9	78.0	57.2	42.2	61.8	45.4	25.6	21.2
Freon-113	1200	1.1	<1	<1	1.2	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		16.2	5.1	6.0	12.9	299.0	215.03	107.3	224.4	108.0	97.8	141.7	342.8	194.9	78.0	57.2	42.2	61.8	45.4	25.6	21.2
Total Concentration of VOCs		17.6	5.1	6.0	12.9	299.0	215.03	107.3	224.4	108.0	97.8	141.7	342.8	194.9	78.0	57.2	42.2	61.8	45.4	25.6	21.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-99-2 (well is on semi-annual sampling)																		
		May-99 (G)	Jul-99	(D)*	Dec-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<10	<20	<20	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<10	<20	<20	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<10	<20	<20	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Chloroform	100	<1	4.6	4.3	<1	<1	<1	<3	<3	<3	<30	<30	<3	<30	<15	<30	<30	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<10	<20	<20	<2	<2	<2
1,1-Dichloroethene	6	9.7	13.9	12.0	23.6	15.3	17.6	13.5	16.5	22.0	15.9	16.0	14.1	14.7	13.3	20.3	15.5	16.2	13.5	12.2
cis-1,2-Dichloroethene	6	<1	<1	0.52	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	1.1	<1	2.8	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,1,1-Trichloroethane	200	6.3	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	0.61	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Trichloroethene	5	252.0	244.0	140.0	385.0	177.0	337.0	236.9	228.1	268.2	284.3	278.0	320.0	271.2	242.2	310.7	265.0	304.0	245.0	241.0
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<5	<10	<10	<1	<1	<1
Total Halogenated Hydrocarbons		268.0	262.5	157.43	409.7	192.3	357.4	250.4	244.6	290.2	300.2	294.0	334.1	285.9	255.5	331.0	280.5	320.2	258.5	253.2
Total Concentration of VOCs		268.0	262.5	157.43	409.7	192.3	357.4	250.4	244.6	290.2	300.2	294.0	334.1	285.9	255.5	331.0	280.5	320.2	258.5	253.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-99-5 (well is on annual sampling)															
		Sep-99	(D)*	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Jan-01	May-01	Aug-01	Nov-01	Mar-02	May-02	Sep-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5
n-Propylbenzene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	3.9	<1	2.2	2.9	2.6	2.0	<1	0.58	5.2
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	6.3	7.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.54	1.8
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		6.3	7.1						3.9		2.2	2.9	2.6	2.0		1.12	7.0
Total Concentration of VOCs		6.3	7.1						3.9		2.2	2.9	2.6	2.0		1.12	7.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	25A-00-5 Jun-00 (G)	Jun-00 (D)*	Sep-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<2	<0.5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene		<2	<1	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					1.1
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					
Total Concentration of VOCs																					1.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	26-92-11 (well is on annual sampling)																
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	(D)*	Jun-94	Aug-94	Dec-94*	(D)*	Jan-95*	Jun-95*	Aug-95	Nov-95	Mar-96	Jun-96
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
Toluene	150	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Chloroform	100	<5	<1	1.0	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	0.74	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	0.90	<0.5	<1	<1	<1	<1
1,1-Dichloroethene	6	6.8	<1	1.0	<1	<1	<1	0.6	<1	<1	1.1	1.2	<0.5	0.78	1.0	1.3	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	15.9	15.9	21.6	13.0	25.3	12.1	12.0	9.8	20.4	15.0	16.0	13.0	13.0	13.8	17.2	11.8	9.8
1,1,1-Trichloroethane	200	<5	1.2	1.0	<1	<1	<1	<0.5	<1	<1	0.51	0.55	<0.5	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	0.98	<0.5	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1		<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		22.7	17.1	24.6	13.0	25.3	12.1	12.6	9.8	20.4	16.61	17.75	15.62	13.78	14.8	18.5	11.8	9.8
Total Concentration of VOCs		22.7	17.1	24.6	13.0	25.3	12.1	12.6	9.8	20.4	16.61	17.75	15.62	13.78	14.8	18.5	11.8	9.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	26-92-11 (continued))															
		Aug-96	Dec-96*	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Feb-01	Sep-01	Mar-02	Sep-02	Aug-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons														1.7			
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	0.96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	10.1	14.0	9.2	9.9	9.1	10.3	7.0	9.0	8.2	10.1	11.0	8.1	9.2	10.5	9.9	8.5
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		10.1	14.96	9.2	9.9	9.1	10.3	7.0	9.0	8.2	10.1	11.0	8.1	9.2	10.5	9.9	8.5
Total Concentration of VOCs		10.1	14.96	9.2	9.9	9.1	10.3	7.0	9.0	8.2	10.1	11.0	8.1	10.9	10.5	9.9	8.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	27-92-20 (well is on semi-annual sampling)																					
		Oct-92	(D)†	Jan-93	Feb-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Jul-94	Aug-94	Sep-94	Dec-94*	Feb-95*	Mar-95*	May-95*	Jul-95	Aug-95	Sep-95	Nov-95	Mar-96	(D)*
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	10.9	5.7	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Bromobenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
sec-Butylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
ter-Butylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
Ethylbenzene	300	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
Hexachlorobutadiene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
Isopropylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
p-Isopropyltoluene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Naphthalene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
n-Propylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
Toluene	150	<5	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.57	<0.5	<0.5	0.83	<1	<1	<1	<1	<1	<0.5
1,2,4-Trichlorobenzene	5	<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
1,3,5-Trimethylbenzene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5
Xylenes, total	1750	<5	6.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1
Total Aromatic Hydrocarbons			22.1									10.9	5.7	0.57			0.83						
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane	100	<5	<2	<1	<1	<1	<1	<1	1.9	<1	<1	2.1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Carbon Tetrachloride	0.5	32.2	31	36.0	24.5	16.7	19.5	23.4	2.6	<1	<1	3.9	12.8	4.2	11.0	7.6	5.4	16.3	11.5	12.2	13.8	6.4	6.8
Chloroform	100	49.6	<2	47.2	20.7	25.6	30.3	37.2	39.6	12.6	21.9	30.1	31.5	13.0	19.0	14.0	10.0	17.6	21.7	23.5	29.3	26.3	13.0
Dibromochloromethane		<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Dibromomethane		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	5	<5	3.4	1.9	<1	2.1	<1	3.3	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethene	6	<5	44	11.4	<1	3.3	1.2	1.5	<1	<1	<1	<1	1.2	0.52	0.79	0.52	<0.5	<1	<1	<1	1.3	<1	<0.5
cis-1,2-Dichloroethene	6	<5	<2	4.9	1.3	2.4	2.9	3.2	<1	<1	1.5	1.2	3.2	<0.5	1.9	1.5	0.98	2.3	3.0	3.1	3.5	1.9	1.7
trans-1,2-Dichloroethene	10	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,3-Dichloropropane		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,1-Dichloropropene		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
cis-1,3-Dichloropropene		<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<0.5
trans-1,3-Dichloropropene		<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<5	36	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Tetrachloroethene	5	72.0	48	24.5	32.7	25.3	24.4	84.2	8.6	2.8	11.6	22.5	41.5	12.0	18.0	16.0	8.6	10.9	16.7	19.1	37.8	17.6	16.0
1,1,1-Trichloroethane	200	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	80.4	43	19.7	24.9	32.6	32.6	36.3	9.3	3.7	13.8	18.2	50.1	11.0	20.0	16.0	11.0	11.8	21.1	23.4	30.5	17.2	16.0
Freon-113	1200	5.4		2.3	2.2	3.8	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<5	<1	<1	<1	<0.5
Vinyl Chloride	0.5	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons		239.6	205.4	147.9	106.3	111.8	110.9	189.1	62.0	19.1	48.8	78.0	140.3	40.72	70.69	55.62	35.98	58.9	74.0	81.3	116.2	69.4	53.5
Total Concentration of VOCs		239.6	227.5	147.9	106.3	111.8	110.9	189.1	62.0	19.1	48.8	88.9	146.0	41.29	70.69	55.62	36.81	58.9	74.0	81.3	116.2	69.4	53.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by Chromalab, EPA Method 8240

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	27-92-20 (continued)																		
		Jun-96	Aug-96	Nov-96	Mar-97	Jul-97(G)	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Mar-01	Aug-01	Sep-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	5.9	10.0	10.0	37.5	5.1	6.3	3.9	4.6	4.1	5.5	5.0	5.7	7.5	7.6	5.9	2.4	4.9	5.4*	3.2
Chloroform	100	16.8	21.7	23.3	15.0	12.5	15.0	9.4	10.9	9.9	15.0	10.3	14.0	13.2	14.6	14.9	7.1	17.6	11.7	10.4
Dibromochloromethane		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	6.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	2.3	2.2	1.9	7.8	1.5	1.5	<1	2.1	1.7	2.4	1.6	2.4	2.1	2.6	2.1	1.4	3.7	1.8	2.8
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	15.2	22.1	17.5	2320	12.7	15.6	8.7	12.1	14.1	15.5	15.0	17.9	29.6	28.4	18.4	7.8	16.2	16.9	8.6
1,1,1-Trichloroethane	200	<1	<1	<1	15.0	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	13.2	21.8	22.2	531	12.9	14.8	9.5	12.3	11.7	16.9	10.9	14.5	17.9	19.1	16.3	7.8	16.0	10.7	9.4
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		53.4	77.8	74.9	2933	44.7	53.2	31.5	42.0	41.5	55.3	44.9	54.5	70.3	72.3	57.6	26.5	58.4	46.5	34.4
Total Concentration of VOCs		53.4	77.8	74.9	2933	44.7	53.2	31.5	42.0	41.5	55.3	44.9	54.5	70.3	72.3	57.6	26.5	58.4	46.5	34.4

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

*-Result bias high due to high recovery in calibration

(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	37-92-6																							
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94*	May-94	May-94*	Sep-94	Dec-94*	Feb-95*	May-95*	Aug-95	Nov-95	Mar-96(G)	May-96	Sep-96	Dec-96	Feb-97	May-97	Sep-97	Dec-97	Feb-98	May-98
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1.0	<1	<20	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	1.3	1.1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<1	<1	<1	<1	<1	<1	3.8	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	1.5	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	1.3	1.4	0.7	<1	<10	<1	0.63	<0.5	0.74	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	5.8	3.9	5.6	4.0	6.5	5.7	2.9	<10	5.0	4.7	2.5	2.1	2.2	3.0	3.7	2.5	2.4	3.0	2.7	2.1	2.3	3.3	2.5	2.9
Freon-113	1200	0.6	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<0.5	<1	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		6.4	5.4	5.6	6.6	9.0	6.4	2.9		5.0	5.33	2.5	2.84	2.2	3.0	3.7	6.3	2.4	3.0	2.7	2.1	2.3	3.3	2.5	2.9
Total Concentration of VOCs		6.4	5.4	5.6	6.6	9.0	6.4	2.9		5.0	5.33	2.5	2.84	2.2	3.0	3.7	6.3	2.4	3.0	2.7	2.1	2.3	3.3	2.5	2.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	37-92-6 (continued)																								
		Aug-98	Nov-98	Feb-99	May-99	Aug-99	Dec-99	Feb-00	Jun-00	Sep-00	Nov-00	Feb-01	May-01	Aug-01	Dec-01	Mar-02	May-02	Sep-02	Oct-02	Jan-03	May-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	1.8	1.8	2.3	1.6	1.8	2.2	1.6	1.5	1.2	1.4	1.3	1.5	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.8	1.8	2.3	1.6	1.8	2.2	1.6	1.5	1.2	1.4	1.3	1.5	1.1											1.0	
Total Concentration of VOCs		1.8	1.8	2.3	1.6	1.8	2.2	1.6	1.5	1.2	1.4	1.3	1.5	1.1											1.0	

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	46-92-9 (well is on annual sampling)																					
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Feb-94	Aug-94	Feb-95*	Aug-95	Feb-96	Aug-96	Mar-97	Aug-97	Mar-98	Aug-98	Feb-99	Aug-00*	Aug-01	Aug-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	6.7	1.5	<1	<1	<1	<1	<1	0.85	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Ethylbenzene	300	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Methyl tert-Butyl Ether															5.5	<5	<5	<5	1.5	<5	<5	<0.5	<5
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2
Total Aromatic Hydrocarbons			6.7	1.5						0.85					5.5				1.5				
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Chloroform	100	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	3.4
1,1,1-Trichloroethane	200	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Trichloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons																							3.4
Total Concentration of VOCs			6.7	1.5						0.85					5.5				1.5				3.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	46-93-12 (well is on semi-annual sampling)																				
		Oct-93	(D)*	Mar-94	Jun-94	Aug-94	Nov-94*	(D)*	Feb-95*	May-95*	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Mar-98	Jun-98
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	9.3	7.3	5.9	<1	3.7	7.1	6.4	3.8	3.0	4.0	3.4	2.5	1.2	2.6	1.4	1.5	1.3	1.2	1.5	<1	1.4
Chloroform	100	16.1	17.0	14.7	14.9	8.7	17.0	16.0	8.5	6.2	9.8	12.8	14.7	5.8	7.0	5.2	4.6	4.1	5.2	6.9	5.4	4.8
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	0.53	0.50	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	0.8	1.3	<1	<1	0.7	0.64	0.78	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	7.9	6.9	8.5	7.2	3.5	3.1	2.8	6.7	3.4	6.8	5.6	4.1	9.7	7.1	1.7	1.8	4.3	2.6	2.0	1.4	4.3
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	11.9	14.0	18.9	13.4	13.6	17.0	15.0	12.0	8.6	8.9	11.3	6.7	8.8	7.1	4.4	3.7	4.3	5.1	6.4	4.5	6.7
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	20.8	26.0	26.8	17.7	21.5	20.0	18.0	16.0	11.0	17.1	18.7	12.2	11.6	9.9	7.1	6.5	8.0	7.8	8.9	7.5	10.4
Freon-113	1200	<1		<1	<1	<1	<0.5	<0.5	1.5•	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		66.0	72.0	76.1	53.2	51.0	65.43	59.34	49.3	32.2	46.6	51.8	40.2	37.1	33.7	19.8	18.1	22.0	21.9	25.7	18.8	27.6
Total Concentration of VOCs		66.0	72.0	76.1	53.2	51.0	65.43	59.34	49.3	32.2	46.6	51.8	40.2	37.1	33.7	19.8	18.1	22.0	21.9	25.7	18.8	27.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

(D) = Duplicate sample
* = Analysis by BC Laboratories
• = Compound detected in method blank, 1.1µg/L

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	46-93-12 (continued)																				
		Sep-98	Nov-98	Feb-99	May-99#	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Feb-01	May-01	Sep-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03*	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	1.3	1.6	<1	1.1	1.7	2.1	1.7	1.0	1.1	1.9	1.9	1.5	2.7	2.2	<1	1.2	1.5	<1	1.5	1.4	1.2
Chloroform	100	4.5	5.8	3.5	3.4	6.5	8.5	<1	3.5	4.7	6.8	6.7	5.5	7.7	8.1	3.6	4.1	5.6	3.8	7.0	6.5	4.7
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	3.6	3.2	3.7	5.4	4.1	3.7	<1	2.6	4.5	3.2	4.7	15.9	7.1	3.0	6.3	12.8	12.0	3.6	13.0	4.6	2.9
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	5.4	6.5	8.2	6.3	6.5	9.6	7.7	4.7	5.1	6.6	12.8	9.2	12.0	8.9	6.1	5.1	6.9	5.3	18.0	7.3	7.3
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	7.7	8.6	7.3	8.3	10.0	11.3	7.0	6.0	6.5	7.8	11.1	13.2	13.9	9.9	8.9	14.2	8.8	6.4	16.0	7.3	7.2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		22.5	25.7	22.7	24.5	28.8	35.2	16.4	17.8	21.9	26.3	37.2	45.3	43.4	32.1	24.9	37.4	34.8	19.1	55.5	27.1	23.3
Total Concentration of VOCs		22.5	25.7	22.7	24.5	28.8	35.2	16.4	17.8	21.9	26.3	37.2	45.3	43.4	32.1	24.9	37.4	34.8	19.1	55.5	27.1	23.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

= Sample was analyzed after holding time expired

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	46-96-10 Nov-96	Jun-97	Aug-97	(D)*	Aug-97	Nov-97	Feb-98	May-98	Aug-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	May-00	Aug-00*	Nov-00
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<1	<0.5	<3
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons															1.5				
Total Concentration of VOCs															1.5				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	46-96-10 (continued)														
		Jan-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																
Total Concentration of VOCs																

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	51-94-15																				
		Dec-94	(D)*	Feb-95*	Jun-95	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Dec-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99*	Apr-99	Aug-99
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Isopropylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Naphthalene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Toluene	150	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Freon-113	1200	<1	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons																						
Total Concentration of VOCs																						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	51-94-15 (continued)																			
		Oct-99	Jan-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Jul-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					
Total Concentration of VOCs																					

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	51-96-3 Jul-96	(D)*	Jul-96	Dec-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Aug-99	Nov-99	Jan-00	May-00	Aug-00	Oct-00
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					
Total Concentration of VOCs																					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	51-96-3 (cont'd)														
		Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																
Total Concentration of VOCs																

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	52-93-14 (well is on semi-annual sampling)																								
		Dec-94*	Mar-95*	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Sep-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<0.5	<1	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<0.5	<1	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane		<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	2.8	2.5	7.3	2.6	2.0	1.6	1.6	1.9	2.7	1.9	<1	3.0	1.3	1.2	2.2	3.0	2.0	3.0	2.9	1.8	2.4	2.5	2.2	2.7	2.5
Chloroform	100	6.5	4.3	5.6	4.5	4.5	1.9	3.0	2.7	3.1	1.6	1.7	1.8	1.2	<1	1.7	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	20.0	17.0	18.9	20.4	22.6	15.9	16.5	14.8	17.0	8.9	3.8	19.4	11.0	11.8	9.6	20.1	13.1	21.0	18.4	12.6	24.6	19.9	22.8	16.7	16.9
1,1,1-Trichloroethane	200	1.6	<0.5	2.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	18.0	14.0	13.7	17.2	17.0	8.8	9.1	11.8	12.0	6.1	5.3	9.1	4.5	3.3	5.2	5.2	3.6	4.4	4.6	3.4	4.7	4.4	4.3	3.8	3.4
Freon-113	1200	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbo		48.9	37.8	48.0	44.7	46.1	28.2	30.2	31.2	34.8	18.5	10.8	33.3	18.0	16.3	18.7	28.3	18.7	28.4	25.9	17.8	31.7	26.8	29.3	23.2	22.8
Total Concentration of VOCs		48.9	37.8	48.0	44.7	46.1	28.2	30.2	31.2	34.8	18.5	10.8	33.3	18.0	16.3	18.7	28.3	18.7	28.4	25.9	17.8	31.7	26.8	29.3	23.2	22.8

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

All analyses by LBNL EML unless otherwise noted

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	52-94-10 (well is on annual sampling)																					
		Dec-94	(D)*	Mar-95*	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Jun-97	Aug-97	Mar-98	Aug-98	Feb-99	Sep-99	Sep-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	0.56	0.66	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	5.0	2.3	4.3	2.0	1.4	2.1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	1.3	1.1	<1	<1	1.0	<1	<1	<1	0.71	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	5.4	3.2	2.6	<1	<1	2.1	2.4	<1	1.1	1.7	1.5	1.5	<1	1.5	<1	<1	1.0	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		5.4	10.06	6.66	4.3	2.0	4.5	4.5		1.1	3.51	1.5	1.5		1.5			1.0					
Total Concentration of VOCs		5.4	10.06	6.66	4.3	2.0	4.5	4.5		1.1	3.51	1.5	1.5		1.5			1.0					

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	52-95-2A		52-95-2B (well is on semi-annual sampling)																										
		Jan-96	Sep-98 (G)	Oct-95(G)	(D)	(G)*	Nov-95(G)	Mar-96	Jun-96	Sep-96	Nov-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	May-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Feb-03	Aug-03	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																															
Benzene	1	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<1	<2	<1	<0.5		<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<1	<2	<1	<0.5		<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<1		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																															
Halogenated Non-Aromatic Hydrocarbons																															
Bromodichloromethane		<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	1.9	1.1	45.5	41.0		46.9	21.7	45.3	34.4	45.5	37.9	39.0	27.0	23.9	30.9	24.0	19.2	19.0	20.6	18.5	21.0	18.6	19.0	23.1	16.6	15.5	13.3	6.2	<0.5	2.1
Chloroform	100	21.5	6.9	108.0	90.0		109.0	38.4	110.0	105.0	110.0	110.0	87.0	59.0	58.0	76.1	62.7	51.4	35.8	61.6	58.3	44.5	46.5	68.5	45.8	74.9	42.4	51.0	25.3	<0.5	7.5
1,1-Dichloroethane	5	<1	<1	2.1	1.9		2.0	<1	1.9	1.6	1.6	1.7	1.7	1.1	1.1	1.7	<1	<1	<1	<1	<1	1.8	<1	1.7	1.0	1.4	<1	1.0	<1	<0.5	<1
1,2-Dichloroethane	0.5	<1	<2	<1	<0.5		<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<1	3.9	2.6		4.4	1.2	2.1	1.8	2.0	1.2	1.8	<1	1.6	<1	1.2	<1	1.3	1.3	<1	<1	<1	<1	1.5	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	1.2	<1	6.8	5.4		6.7	2.0	6.4	4.6	4.1	7.7	6.5	4.8	4.2	8.4	6.6	5.4	4.8	8.2	3.5	6.7	4.0	6.8	4.0	5.0	4.1	3.7	2.1	<0.5	1.7
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	4.7	1.7	122.0	84.0		131.0	196.0	113.0	114.0	114.0	48.2	104.0	82.9	85.4	38.5	79.9	84.3	101.0	44.2	74.0	41.9	73.2	46.6	116.3	41.5	73.1	34.2	27.2	0.63	6.5
1,1,1-Trichloroethane	200	<1	<1	<1	0.68		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	5.3	2.6	64.0	51.0		74.5	51.6	43.1	59.8	62.3	44.7	60.6	40.6	37.4	45.4	38.2	36.5	35.8	34.0	24.9	29.2	27.4	28.7	32.1	25.5	28.5	22.0	11.5	<0.5	5.3
Freon-113	1200	<1	<1	<1	0.99		1.4	4.4	1.2	<1	1.2	1.4	1.4	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbon		34.6	12.3	352.3	277.57		375.9	315.3	323.0	321.2	340.7	252.8	302.0	215.4	211.6	202.2	212.6	196.8	197.7	169.9	179.2	148.7	169.7	171.3	223.8	164.9	163.6	125.2	72.3	0.63	23.1
Total Concentration of VOCs		34.6	12.3	352.3	277.57		375.9	315.3	323.0	321.2	340.7	252.8	302.0	215.4	211.6	202.2	212.6	196.8	197.7	169.9	179.2	148.7	169.7	171.3	223.8	164.9	163.6	125.2	72.3	0.63	23.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	52-98-9 (well is approved for no further VOC sampling)																			
		Nov-98 (G)	Jul-99	(D)*	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Sep-02	Jul-03*	Aug-03	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<2	<2	<0.5	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane		<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	28.2	32.8	30.0	22.4	20.9	19.4	15.4	17.0	23.6	22.3	21.0	20.3	20.8	17.4	19.4	13.6	1.7	8.6	5.1	4.8
Chloroform	100	54.8	101.0	78.0	75.6	84.6	40.6	53.8	66.2	83.6	80.8	80.5	65.7	64.8	80.0	78.2	57.0	8.3	19.6	25.7	15.0
1,1-Dichloroethane	5	<1	1.7	1.5	<10	1.5	1.6	1.1	1.2	1.5	1.8	1.6	1.5	1.4	1.4	1.3	1.0	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	1.2	1.2	<10	1.2	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	27.0	4.8	5.7	<10	5.9	5.6	5.0	5.5	6.2	5.7	5.5	5.4	4.3	4.8	3.3	3.2	<0.5	1.0	<1	3.8
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	38.7	68.4	83.0	64.7	84.0	37.5	40.8	40.4	56.1	51.4	67.6	58.3	57.6	40.2	58.9	36.8	10.0#	410.0	19.0	18.3
1,1,1-Trichloroethane	200	<1	<1	0.54	<10	<1	3.6	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	93.9	45.6	38.0	42.8	37.1	25.3	26.0	28.2	33.3	30.3	30.9	32.3	28.9	28.2	30.2	23.6	3.3	55.2	10.5	12.2
Freon-113	1200	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbon		242.6	255.5	237.94	205.5	235.2	133.6	143.5	158.5	204.3	192.3	208.2	183.5	177.8	172.0	191.3	135.2	23.3	494.4	60.3	54.1
Total Concentration of VOCs		242.6	255.5	237.94	205.5	235.2	133.6	143.5	158.5	204.3	192.3	208.2	183.5	177.8	172.0	191.3	135.2	23.3	494.4	60.3	54.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
#=Analyte detected in continuing calibration blank above PQL

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	52A-98-8A		52A-98-8B (well is on semi-annual sampling)																					
		Apr-99 (G)	May-00 (G)	Jul-99	(D)*	Sep-99	Nov-99	Feb-00	Mar-00	May-00	Sep-00	Dec-00	Mar-01	May-01	Aug-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Jul-03*	Aug-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<3	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Bromodichloromethane		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	24.6	24.0	22.9	24.1	22.3	20.1	19.1	19.2	25.2	35.3	15.7	22.7	20.5	13.0	12.4	15.4	13.9	6.2	10.9	5.5	10.6	<1
Chloroform	100	<1	<1	63.1	50.0	47.5	60.0	38.6	30.1	84.7	47.8	56.2	93.1	54.1	54.3	49.3	56.7	40.3	48.1	45.3	28.0	44.0	25.4	40.9	4.3
1,1-Dichloroethane	5	<1	<1	1.0	1.2	<10	1.0	<1	<1	1.3	<1	<1	<1	1.2	1.2	1.2	1.3	<1	<1	1.3	0.70	<1	<1	1.5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<10	<1	<1	1.1	<1	<1	<1	2.2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	1.6	2.9	16.4	22.0	16.7	28.0	17.5	12.3	22.0	20.8	23.9	33.4	27.0	29.0	23.5	35.3	19.7	31.5	41.1	20.0	23.0	18.6	45.0	5.3
trans-1,2-Dichloroethene	10	<1	<1	<1	1.0	<10	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	1.4	1.5	1.0	1.4	2.4	1.3	<1	1.8	<1
Methylene Chloride	5	<1	<1	<1	<3	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	35.5	41.0	25.5	36.1	37.8	26.2	35.7	27.2	30.2	27.8	29.7	34.5	21.5	24.6	28.0	26.1	23.1	22.0#	537.0	14.1	17.4	3.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<10	<1	<1	2.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	3.1	9.3	81.5	72.0	88.4	94.9	57.9	45.4	71.6	67.7	80.4	92.1	72.3	103.2	74.6	94.1	80.5	100.2	99.0	56.0	87.8	46.2	89.8	12.3
Freon-113	1200	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		4.7	12.2	222.1	211.2	201.0	244.1	174.1	137.4	234.4	182.7	215.9	283.9	200.0	246.1	190.6	226.4	182.4	222.3	225.1	135.3	704.0	109.8	207.0	24.9
Total Concentration of VOCs		4.7	12.2	222.1	211.2	201.0	244.1	174.1	137.4	234.4	182.7	215.9	283.9	200.0	246.1	190.6	226.4	182.4	222.3	225.1	135.3	704.0	109.8	207.0	24.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

#=Analyte detected in continuing calibration blank above PQL

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

		52A-00-6																			
Constituent	MCL	Jun-00 (G)	Jun-00	(D)*	Sep-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<2	<0.5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene		<2	<1	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					
Total Concentration of VOCs																					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	52B-95-13 (well is on semi-annual sampling)																						
		Sep-95	Jun-96	Sep-96	Nov-96	Mar-97	Jun-97	Sep-97	Nov-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Mar-00	Sep-00	Mar-01	Mar-02	Sep-02	Feb-03	Sep-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<2	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	67.0	43.4	22.1	6.8	52.0	30.5	25.4	21.2	38.5	25.2	36.1	10.8	22.9	25.3	33.9	27.5	24.1	11.3	27.7	9.1	5.5	11.5	3.9
Chloroform	100	30.4	19.0	16.2	7.5	20.9	16.8	16.5	12.8	17.2	13.0	13.5	7.4	11.3	11.2	14.7	13.0	11.4	8.6	13.7	8.7	7.3	9.5	5.2
Dibromochloromethane		<1	<1	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	16.3	7.5	<10	1.5	6.8	3.8	4.9	4.6	5.3	3.5	4.9	2.2	2.1	2.3	<1	2.3	1.3	1.1	2.4	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	709.0	449.0	164.0	63.4	292.0	178.0	117.0	130.0	178.0	155.0	273.0	45.9	117.0	140.0	155.0	123.9	115.3	49.4	161.0	29.4	26.2	35.2	11.3
1,1,1-Trichloroethane	200	6.0	43.4	<10	<1	1.8	1.4	1.1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	90.3	31.3	35.9	14.4	46.7	34.3	34.6	27.6	49.4	26.8	45.6	13.0	18.8	19.9	20.1	18.3	15.2	9.3	26.3	6.5	7.1	8.2	4.6
Freon-113	1200	1.2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		920.2	593.6	238.2	93.6	420.2	264.8	199.5	196.2	289.9	223.5	373.1	79.3	172.1	198.7	223.7	185.0	167.3	79.7	231.1	53.7	46.1	64.4	25.0
Total Concentration of VOCs		920.2	593.6	238.2	93.6	420.2	264.8	199.5	196.2	289.9	223.5	373.1	79.3	172.1	198.7	223.7	185.0	167.3	79.7	231.1	53.7	46.1	64.4	25.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Wells

		53-92-21																					
		130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	147'	147'	147'	147'	147'	147'
Constituent	MCL	Jan-93	Sep-94	Oct-94*	Nov-94*	Mar-95*	May-95*	Aug-95	Mar-96(G)	Apr-97	Jun-98	May-99	Sep-00	Sep-01	Sep-02	Sep-03	Aug-04	Jan-93	May-95*	Mar-96(G)	Apr-97	Jun-98	May-99
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	1.0	<1	3.7	0.72	1.6	1.0	1.4	1.2	<1	<1	<1	<1	<1	<1	1.1	1.1	1.0	<0.5	<1	<1	<1	<1
Bromobenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Hexachlorobutadiene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<3	<3	<3	<3	<3	<3	<3	<3	<1	<0.5	<2	<3	<3	<3
Isopropylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Toluene	150	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.0		3.70	0.72	1.6	1.0	1.4	1.2							1.1	1.1	1.0					
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane	100	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	10.8	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	10.2	<0.5	<1	<1	<1	<1
Dibromochloromethane		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
Dibromomethane		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	0.59	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Tetrachloroethene	5	<1	1.5	1.5	0.79	1.3	0.64	<1	<1	1.7	2.5	1.3	<1	1.3	<1	<1	<1	<1	<0.5	<1	1.6	2.7	3.0
1,1,1-Trichloroethane	200	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	1.1	1.6	0.66	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		10.8	2.6	3.69	1.45	1.3	0.64			1.7	2.5	1.3		1.3				10.2			1.6	2.7	3.0
Total Concentration of VOCs		11.8	2.6	7.39	2.17	2.9	1.64	1.4	1.2	1.7	2.5	1.3		1.3		1.1	1.1	11.2			1.6	2.7	3.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Wells

		53-92-21 (Continued)																				
		147'	147'	147'	167'	167'	167'	167'	167'	167'	167'	167'	167'	193'	193'	193'	193'	193'	193'	193'	193'	193'
Constituent	MCL	Sep-00	Sep-01	Sep-02	Jan-93	May-95*	Mar-96(G)	Apr-97	Jun-98	May-99	Sep-00	Sep-01	Sep-02	Jan-93	May-95*	Mar-96(G)	Apr-97	Jun-98	May-99	Sep-00	Sep-01	Sep-02
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	1.6	0.78	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<1	<0.5	<2	<3	<3	<3	<3	<3	<3	<1	<0.5	<2	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														1.6	0.78							
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	2.0	<0.5	<1	<1	<1	<1	<3	<3	<3
Dibromochloromethane		<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	1.6	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<1	<0.5	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	2.1	1.2	<1	<1	<0.5	<1	2.0	1.9	1.2	<1	<1	<1	<1	<0.5	<1	1.2	1.7	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	3.9	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2.1	1.2					2.0	1.9	1.2				2.0			1.2	7.2				
Total Concentration of VOCs		2.1	1.2					2.0	1.9	1.2				3.6	0.78		1.2	7.2				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Area 2 Well

Constituent	MCL	53-93-9 (well is on semi-annual sampling)																					
		Oct-93	(D)*	Mar-94	Jun-94	Aug-94	Sep-94	(D)	Dec-94*	Feb-95*	Mar-95*	Jun-95*	(D)	Jul-95	Aug-95	Sep-95	(D)*	(S)*	Nov-95	Mar-96	Jun-96†	(S)	Aug-96
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Bromobenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
Hexachlorobutadiene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
Isopropylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1		<1	<1
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	2.9	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<10	<2	<2
Total Aromatic Hydrocarbons													2.9										
Halogenated Non-Aromatic Hydrocarbons																							
Bromodichloromethane	100	<1	<0.5	<1	<1	<1	<1	<1	<0.5	0.94	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Carbon Tetrachloride	0.5	56.2	50.0	41.6	19.3	46.0	26.5	26.0	52.0	7.6	20.0	18.0	20.0	18.0	33.0	36.6	32.0	29.0	47.4	15.3	9.9	11.7	27.2
Chloroform	100	67.3	75.0	70.6	47.0	56.0	35.5	34.6	88.0	26.0	44.0	38.0	42.0	39.6	61.0	64.2	50.0	52.0	71.1	58.6	27.0	37.6	54.8
Dibromochloromethane		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Dibromomethane		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,1-Dichloroethane	5	1.8	1.2	1.7	<1	1.8	<1	<1	2.4	<0.5	1.1	0.85	4.2	<1	1.3	1.5	1.4	1.5	1.8	1.2	<5	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,1-Dichloroethene	6	8.5	8.3	8.0	4.5	8.4	4.3	4.5	9.3	1.2	2.4	1.9	4.5	<1	4.7	6.0	4.2	3.8	8.7	1.6	<5	1.4	2.0
cis-1,2-Dichloroethene	6	4.3	4.0	3.8	2.7	6.6	3.0	3.1	4.4	2.7	2.9	2.2	5.9	<1	4.4	4.9	3.9	4.0	5.7	3.3	<5	2.9	3.2
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	2.8	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,3-Dichloropropane		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,1-Dichloropropene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
cis-1,3-Dichloropropene		<1		<1	<1	<1	<1	<1					<1	<1	<1	<1			<1	<1	<5	<1	<1
trans-1,3-Dichloropropene		<1		<1	<1	<1	<1	<1					<1	<1	<1	<1			<1	<1	<5	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Tetrachloroethene	5	142.3	130.0	97.2	76.9	215.3	113.4	115.8	150.0	17.0	59.0	37.0	72.0	38.5	93.9	106.0	100.0	100.0	129.0	35.8	24.0	29.9	70.8
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	0.77	<0.5	<0.5	<0.5	2.8	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Trichloroethene	5	89.8	100.0	81.9	47.3	133.6	88.5	91.7	110.0	19.0	41.0	35.0	43.2	27.1	57.1	69.6	66.0	65.0	90.0	29.9	22.0	20.2	53.0
Freon-113	1200	6.1		9.1	12.9	25.2	16.2	11.7	2.7	0.87•	0.92	1.1	5.1	<5	<5	2.3	2.0	1.8	3.1	3.3		1.1	1.3
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1
Total Halogenated Hydrocarbons		376.3	368.5	313.9	210.6	492.9	287.4	287.4	419.57	75.31	171.32	134.05	199.7	126.0	255.4	291.1	259.5	257.1	356.8	149.0	82.9	104.8	212.3
Total Concentration of VOCs		376.3	368.5	313.9	210.6	492.9	287.4	287.4	419.57	75.31	171.32	134.05	202.6	126.0	255.4	291.1	259.5	257.1	356.8	149.0	82.9	104.8	212.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by California Laboratory Services
• = Compound detected in method blank, 1.1µg/L

(D) = Duplicate sample
(S) = split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Area 2 Well

Constituent	MCL	53-93-9 (continued)																						
		Nov-96	Mar-97	Jun-97	Sep-97	Nov-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Mar-02	Sep-02	Feb-03	Aug-03	Feb-04	Mar-04	Jun-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	3.1							
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	33.6	15.1	16.3	23.4	25.9	10.0	7.3	11.5	13.7	<1	<1	<1	1.3	14.7	16.7	6.3	13.2	1.3	2.8	<1	1.2	1.4	2.9
Chloroform	100	65.9	40.8	44.2	44.3	49.8	29.4	23.8	33.8	34.9	<1	1.3	<1	6.1	31.1	30.9	16.8	30.3	3.7	11.5	<3	3.8	3.8	9.3
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	1.1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	2.7	<1	1.2	<1	3.0	<1	<1	<1	1.3	<1	<1	<1	<1	1.3	1.9	<1	1.0	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	3.8	2.4	2.8	3.7	4.1	2.3	1.8	3.3	3.9	<1	<1	<1	<1	3.4	4.0	2.4	3.3	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	90.3	33.1	93.6	68.9	86.3	23.6	19.0	49.9	58.9	4.3	4.6	4.6	9.5	63.9	74.5	29.1	55.6	27.1	24.6	2.4	6.0	6.8	12.4
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	63.4	25.2	38.4	43.6	51.6	23.2	15.7	29.4	33.6	2.6	2.5	2.4	5.6	29.5	33.4	16.3	27.7	7.2	11.7	<1	3.3	3.8	7.6
Freon-113	1200	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		262.5	116.6	196.5	183.9	221.8	88.5	67.6	127.9	146.3	6.9	8.4	9.1	22.5	143.9	161.4	70.9	131.1	39.3	50.6	2.4	14.3	15.8	32.2
Total Concentration of VOCs		262.5	116.6	196.5	183.9	221.8	88.5	67.6	127.9	146.3	6.9	8.4	9.1	22.5	143.9	161.4	74.0	131.1	39.3	50.6	2.4	14.3	15.8	32.2

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-93-16-42' (well is on annual sampling)																						
		Mar-94	(D)*	Jun-94	Sep-94	Dec-94*	Feb-95*	May-95*	May-95*	Aug-95	Dec-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	Aug-97	May-98	May-99	Aug-00	Aug-01	Sep-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	0.60	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
Dibromochloromethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	17.1	15.0	10.4	4.4	11.0	12.0	10.0	8.9	8.7	<1	12.9	12.3	4.0	4.7	4.2	1.8	13.5	5.8	<1	<1	<1	<1	1.4
trans-1,2-Dichloroethene	10	1.2	0.9	<1	<1	0.78	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1		<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1		<1	<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	55.9	44.0	27.8	26.6	27.0	34.0	34.0	36.0	38.8	37.1	33.8	33.5	32.8	23.1	20.5	20.5	47.2	29.9	14.4	14.1	10.3	10.5	9.3
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	26.3	20.0	11.2	9.6	11.0	14.0	12.0	11.0	11.4	5.5	10.0	9.5	6.6	6.5	5.7	3.8	16.1	6.4	1.6	1.7	<1	<1	2.1
Freon-113	1200	6.2	<0.5	<1	<1	0.69	<0.5	<0.5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		106.7	79.9	49.4	40.6	51.07	60.0	56.0	55.9	58.9	42.6	56.7	55.3	43.4	34.3	30.4	26.1	76.8	42.1	16.0	15.8	10.3	10.5	12.8
Total Concentration of VOCs		106.7	79.9	49.4	40.6	51.07	60.0	56.0	55.9	58.9	42.6	56.7	55.3	43.4	34.3	30.4	26.1	76.8	42.1	16.0	15.8	10.3	10.5	12.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-93-16-69' (well is on semi-annual sampling)																			
		Mar-94	(D)*	Jun-94	Aug-94	Dec-94*	Feb-95*	Mar-95*	May-95*	Jul-95	Aug-95	Sep-95	Dec-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	Jun-97	Sep-97	Dec-97
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
Bromobenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
Hexachlorobutadiene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<3	<3	<3	<30	<15
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<2	<2	<2	<20	<10
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<2	<2	<2	<20	<10
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<4	<200	<2	<1	<1	<1	<10	<5
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<4	<200	<2	<2	<2	<2	<20	<10
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane	100	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
Carbon Tetrachloride	0.5	57.6	50.0	44.4	20.8	39.0	52.0	38.0	45.0	93.4	60.6	45.8	32.7	35.6	<100	30.7	37.7	34.5	37.2	20.8	28.9
Chloroform	100	19.7	16.0	19.6	7.8	21.0	16.0	15.0	16.0	23.7	18.8	14.8	13.9	29.3	<100	11.0	13.8	12.4	13.1	<10	10.6
Dibromochloromethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<2	<2	<2	<20	<10
Dibromomethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
1,1-Dichloroethane	5	9.5	10.0	9.3	4.0	12.0	7.3	6.7	6.9	8.7	6.7	6.6	8.1	9.6	<100	5.4	4.8	4.0	4.6	<10	<5
1,2-Dichloroethane	0.5	2.5	1.9	1.7	<1	2.6	1.7	<0.5	1.4	<1	<1	<2	<1	<2	<100	1.1	<2	<2	<2	<20	<10
1,1-Dichloroethene	6	46.1	30.0	29.9	16.9	31.0	34.0	30.0	32.0	29.0	33.2	30.6	34.9	25.2	<100	19.3	23.8	20.1	22.4	15.7	18.8
cis-1,2-Dichloroethene	6	91.4	88.0	104.3	65.7	100.0	60.0	69.0	51.0	115.0	78.6	87.6	106.0	83.0	<100	61.4	56.9	43.5	47.1	32.4	36.2
trans-1,2-Dichloroethene	10	5.8	4.6	3.9	4.1	6.9	3.7	3.9	4.1	1.8	4.0	5.1	6.2	4.9	<100	5.2	4.4	3.0	4.6	<10	<5
1,3-Dichloropropane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
1,1-Dichloropropene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
cis-1,3-Dichloropropene		<1		<1	<1					<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
trans-1,3-Dichloropropene		<1		<1	<1					<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<2	<2	<2	<20	<10
Tetrachloroethene	5	617.1	730.0	547.4	420.5	790.0	610.0	580.0	520.0	2000.0	954.0	734.0	858.0	627.0	758.0	507.0	516.0	354.0	389.0	351.0	375.0
1,1,1-Trichloroethane	200	2.5	1.7	1.9	<1	2.0	1.4	1.3	1.3	1.6	<1	<2	1.4	<2	<100	<1	<1	<1	<1	<10	<5
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5
Trichloroethene	5	283.6	290.0	206.0	232.2	320.0	250.0	210.0	210.0	1080.0	390.0	307.0	326.0	257.0	165.0	199.0	207.0	138.0	174.0	145.0	154.0
Freon-113	1200	6.3	2.3	14.8	7.1	2.3	2.8	2.4	2.9	<5	<5	2.4	1.7	13.6	<100	1.8	2.2	2.5	2.3	<10	<5
Vinyl Chloride	0.5	23.0	12.0	9.2	2.6	16.0	9.2	7.3	5.7	<1	5.1	<2	6.8	8.4	<100	3.7	3.6	1.4	2.6	<10	<5
Total Halogenated Hydrocarbons		1165.1	1236.5	992.4	781.7	1342.8	1048.1	963.6	896.3	3353.2	1551.0	1233.9	1395.7	1093.6	923.0	845.6	870.2	613.4	696.9	564.9	623.5
Total Concentration of VOCs		1165.1	1236.5	992.4	781.7	1342.8	1048.1	963.6	896.3	3353.2	1551.0	1233.9	1395.7	1093.6	923.0	845.6	870.2	613.4	696.9	564.9	623.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-93-16-69' (Cont'd)																			
		Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	May-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Feb-03	Jul-03*	Jul-03*	Aug-03	Aug-03	Sep-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Bromobenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Hexachlorobutadiene		<30	<30	<15	<30	<3	<30	<3	<15	<3	<3	<30	<30	<3	<0.5	<0.5	<3	<3	<3	<3	<3
Isopropylbenzene		<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<0.5	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Naphthalene		<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<0.5	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Toluene	150	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<1	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Bromodichloromethane	100	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	34.2	35.8	18.7	22.1	19.5	<10	23.8	19.3	23.1	19.1	13.7	21.7	15.9	3.3	<0.5	<1	5.5	10.7	1.3	1.9
Chloroform	100	15.2	15.7	8.5	10.5	8.3	<10	10.0	<15	8.3	8.2	<10	<10	5.3	1.1	<0.5	<3	3.1	5.1	<3	<3
Dibromochloromethane		<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<0.5	<0.5	<2	<2	<2	<2	<2
Dibromomethane		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<10	<10	<5	<10	2.2	<10	2.3	<5	2.3	2.0	<10	<10	1.5	<0.5	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<0.5	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	19.9	21.9	12.4	16.0	13.7	<10	14.5	11.8	17.7	14.9	<10	11.3	7.6	1.4	<0.5	<1	3.2	6.6	<1	<1
cis-1,2-Dichloroethene	6	34.0	37.5	31.7	35.7	30.1	10.1	18.5	28.3	29.1	29.7	22.2	26.2	21.2	3.2	<0.5	<1	8.5	15.0	<1	2.2
trans-1,2-Dichloroethene	10	<10	<10	<5	<10	2.7	<10	3.2	4.6	5.2	6.4	<10	<10	2.3	<0.5	<0.5	<1	<1	<1	<1	<1
1,3-Dichloropropane		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,1-Dichloropropene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<20	<10	<20	<2	<20	<2	<10	<2	<2	<20	<20	<2	<0.5	<0.5	<2	<2	<2	<2	<2
Tetrachloroethene	5	382.0	386.0	334.0	348.0	186.0	84.7	368.0	263.6	335.3	405.6	289.7	532.0	588.0	86.0	14.0#	144.0	187.0	315.0	20.3	25.8
1,1,1-Trichloroethane	200	<10	<10	<5	<10	<1	<10	1.4	4.9	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<10	<5	<10	<1	<10	<1	<5	<1	<1	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	186.0	167.0	114.0	129.0	111.0	32.0	97.9	109.7	131.1	141.4	120.2	187.0	210.0	26.0	3.3	54.7	55.6	87.7	7.4	9.8
Freon-113	1200	<10	<10	<5	<10	<1	<10	2.5	<5	1.1	1.0	<10	<10	<1	<0.5	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<10	<5	<10	<1	<10	<1	2.0	1.5	1.4	<10	<10	1.8	<0.5	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		671.3	663.9	519.3	561.3	373.5	126.8	542.1	444.2	554.7	629.7	445.8	778.2	853.6	121.0	17.3	198.7	262.9	440.1	29.0	39.7
Total Concentration of VOCs		671.3	663.9	519.3	561.3	373.5	126.8	542.1	444.2	554.7	629.7	445.8	778.2	853.6	121.0	17.3	198.7	262.9	440.1	29.0	39.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

#=Analyte detected in method blank above PQL

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-93-17 (well is on annual sampling)																												
		Jan-94	(D)*	Aug-94	Sep-94	Dec-94*	Feb-95*	May-95*	Jul-95	Aug-95	Sep-95	Nov-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	Sep-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																														
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																														
Halogenated Non-Aromatic Hydrocarbons																														
Bromodichloromethane	100	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	1.4	1.3	2.9	10.0	5.0	4.0	20.1	24.7	18.4	5.4	4.0	7.2	12.7	4.0	7.3	6.0	10.0	5.3	8.7	11.2	4.2	4.8	6.4	8.4	4.2	7.1	7.8	5.3
Chloroform	100	22.3	24.0	7.3	9.6	26.0	14.0	15.0	40.3	48.3	44.7	35.3	33.3	27.8	34.2	26.3	27.6	24.7	40.0	22.6	24.5	26.0	12.7	17.7	19.7	21.5	14.8	21.5	21.2	15.8
Dibromochloromethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	0.7	<1	<1	0.91	<0.5	<0.5	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.0	0.9	<1	<1	2.4	<0.5	0.51	2.2	4.7	3.3	<1	<1	1.3	1.2	<1	<1	<1	<1	<1	1.1	1.0	<1	<1	<1	1.1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	1.1	0.98	0.60	2.0	2.7	2.3	1.6	1.6	1.6	1.3	<1	1.1	1.1	3.2	1.8	2.1	1.7	1.5	1.4	1.8	2.1	1.3	1.7	2.6	2.1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1		<1	<1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1		<1	<1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	27.4	26.0	22.6	33.0	40.0	15.0	25.0	63.2	85.4	71.5	47.9	20.3	33.8	50.2	29.2	31.7	30.4	21.6	31.8	49.4	37.7	16.3	23.8	31.4	47.6	24.5	35.8	43.8	28.2
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	15.4	15.0	16.6	14.2	36.0	14.0	16.0	33.8	48.3	42.6	28.6	14.7	17.5	33.9	18.5	19.3	17.7	25.3	16.3	24.6	26.7	10.6	12.9	17.5	21.7	13.5	18.1	20.1	13.5
Freon-113	1200	<1	<0.5	<1	5.5	<0.5	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		66.1	68.0	47.8	65.2	116.41	48.98	61.11	161.6	215.2	182.8	118.8	73.9	89.2	133.5	78.0	87.0	79.9	100.1	77.8	110.4	105.9	45.3	60.6	76.8	102.4	58.3	84.2	95.5	64.9
Total Concentration of VOCs		66.1	68.0	47.8	65.2	116.41	48.98	61.11	161.6	215.2	182.8	118.8	73.9	89.2	133.5	78.0	87.0	79.9	100.1	77.8	110.4	105.9	45.3	60.6	76.8	102.4	58.3	84.2	95.5	64.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-95-12 (well is on semi-annual sampling)																											
		Sep-95	Nov-95	Jun-96	Sep-96	Dec-96*(G)	Mar-97	Jun-97	Sep-97	Nov-97	(D)*	Mar-98	Jun-98	Sep-98	Dec-98	Jan-99 (G)	Mar-99	Jun-99	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Sep-02	Feb-03	Aug-03	Dec-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Bromobenzene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
n-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
sec-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
ter-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Ethylbenzene	300	<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Hexachlorobutadiene		<1	<1	<5	<150	<0.5	<3	<300	<300	<300	<200	<300	<300	<300	<300	<300	<300	<300	<30	<30	<30	<3	<3	<3	<30	<3	<3	<3	<3
Isopropylbenzene		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	<2	<20	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Naphthalene		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	<2	<20	<2	<2	<2	<2
n-Propylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Toluene	150	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<10	<100	<1	<2	<200	<200	<200	<300	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	<2	<20	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane	100	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Carbon Tetrachloride	0.5	354.0	381.0	14.1	320.0	44.0	50.9	327.0	226.0	216.0	200.0	105.0	165.0	199.0	<100	108.0	<100	<100	49.5	24.6	18.9	3.0	<1	33.3	<10	1.8	1.5	<1	<1
Chloroform	100	35.1	46.6	<5	<50	4.2	6.8	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<30	<30	<3	<3	<3	<30	<3	<3	<3	<3
Dibromochloromethane		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	<2	<20	<2	<2	<2	<2
Dibromomethane		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,1-Dichloroethane	5	16.6	19.9	<5	<50	1.9	2.1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	1.9	<10	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	<2	<20	<2	<2	<2	<2
1,1-Dichloroethene	6	78.3	103.0	6.2	66.0	8.6	9.3	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	7.9	<10	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	551.0	556.0	50.0	321.0	59.0	74.6	236.0	212.0	232.0	270.0	110.0	197.0	228.0	<100	150.0	<100	<100	71.6	135.5	21.0	14.6	5.5	81.7	16.8	27.2	17.9	4.1	5.9
trans-1,2-Dichloroethene	10	4.3	<1	<5	<50	0.57	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,3-Dichloropropane		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,1-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<5	<50	<1	<1	<100	<100	<100	<300	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		30.9	<1	<5	<100	3.7	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20	<20	<20	<2	<2	5.3	<20	<1	<1	<1	<1
Tetrachloroethene	5	14,820	8,880	1,050	18,390	2,000	1,920	13,300	8,260	6,170	5,400	4,010	6,630	10,200	2,200	5,300	1,730	1,390	1,360	1,269	752.8	153.5	13.7	1,780	342.0	144.0	204.0	14.2	9.9
1,1,1-Trichloroethane	200	2.9	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	27.3	<10	<1	<1	<1	<1
Trichloroethene	5	8,650	7,710	435.0	11,030	1,100	1,100	6,810	5,500	5,650	5,200	2,550	3,160	5,310	1,180	2,550	795.0	559.0	697.0	685.7	382.7	92.8	11.2	875.0	183.0	76.4	58.1	7.9	6.4
Freon-113	1200	2.1	2.6	<5	<50	<30	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Vinyl Chloride	0.5	2.1	2.0	<5	<50	<0.5	<1	<100	<100	<100	<300	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<1	<1	<1	<10	<1	<1	<1	<1
Total Halogenated Hydrocarbons		24,547	17,701	1,555.3	30,127	3,222	3,163.7	20,673	14,198	12,268	11,070	6,775	10,152	15,937	3,380	8,108	2,525	1,949	2,178	2,114	1,175	263.9	30.4	2,812.4	541.8	249.4	281.5	26.2	22.2
Total Concentration of VOCs		24,547	17,701	1,555.3	30,127	3,222	3,163.7	20,673	14,198	12,268	11,070	6,775	10,152	15,937	3,380	8,108	2,525	1,949	2,178	2,114	1,175	263.9	30.4	2,812.4	541.8	249.4	281.5	26.2	22.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	53-96-1 (MW91-7) (well is on annual sampling)																		
		Jul-96	(D)*	Aug-96	Nov-96	Mar-97	Jun-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Sep-03	Dec-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromobenzene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
n-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
sec-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
ter-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichlorobenzene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,4-Dichlorobenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	300	<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Hexachlorobutadiene		<2	<0.5	<2	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<3
Isopropylbenzene		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Naphthalene		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
n-Propylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	150	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,4-Trimethylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,3,5-Trimethylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Xylenes, total	1750	<2	<1	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane	100	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromoform		<2	<0.5	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	0.5	23.9	27.0	39.7	41.3	36.9	14.9	27.6	16.5	22.2	<1	22.5	18.4	15.9	19.0	3.3	3.7	9.6	20.5	13.9
Chloroform	100	12.0	12.0	12.0	14.0	11.4	12.5	14.8	8.5	9.4	6.8	11.5	7.3	7.8	7.1	4.1	4.2	5.9	<30	7.1
1,1-Dichloroethane	5	3.5	3.5	2.8	<1	<10	2.4	2.1	1.5	1.4	1.5	1.7	<1	1.2	<1	<1	1.0	<1	<10	<1
1,2-Dichloroethane	0.5	1.4	1.5	<1	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethene	6	24.7	16.0	17.1	2.6	19.0	12.4	16.2	8.8	11.9	9.2	11.2	8.8	10.3	11.1	4.5	6.6	6.8	<10	8.1
cis-1,2-Dichloroethene	6	34.1	30.0	27.2	24.7	21.4	30.0	24.7	16.0	20.1	28.4	17.7	16.8	19.4	17.8	27.1	25.9	40.3	14.0	14.6
trans-1,2-Dichloroethene	10	2.8	2.6	2.2	1.8	<10	<1	1.9	1.2	1.7	1.0	2.6	1.9	2.6	2.8	<1	<1	<1	<10	2.3
1,3-Dichloropropane		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
cis-1,3-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
trans-1,3-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Methylene Chloride	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Tetrachloroethene	5	280.0	260.0	338.0	330.0	376.0	184.0	246.0	157.0	176.0	104.0	170.0	177.7	155.3	209.8	76.4	139.7	214.0	193.0	140.0
1,1,1-Trichloroethane	200	1.2	0.96	1.4	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Trichloroethene	5	104.0	130.0	153.0	130.0	120.0	94.7	127.0	78.6	96.3	68.9	70.8	68.0	73.7	87.0	43.6	57.8	74.6	75.0	55.8
Freon-113	1200	<1	<0.5	1.9	1.6	<10	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Freon-123A								<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Vinyl Chloride	0.5	1.9	2.2	1.5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1
Total Halogenated Hydrocarbons		489.5	485.76	596.8	546.0	584.7	352.1	460.3	288.1	339.0	220.9	308.0	298.9	286.2	354.6	159.0	238.9	351.2	302.5	241.8
Total Concentration of VOCs		489.5	485.76	596.8	546.0	584.7	352.1	460.3	288.1	339.0	220.9	308.0	298.9	286.2	354.6	159.0	238.9	351.2	302.5	241.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-93-3 (well is on semi-annual sampling)																		
		Jun-94*	(D)†	Sep-94	Dec-94*	Mar-95*	May-95*	Jun-95	Aug-95	(D)*	Dec-95	Feb-96	Jun-96	Sep-96	Nov-96	Mar-97	Jun-97	Aug-97	Nov-97	Mar-98
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<1	<1.0	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<0.5	<5	<1	<0.5	<0.5	0.64	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	7.7	10.0	2.5	5.2	6.3	6.3	8.9	6.0	6.2	6.1	7.7	6.4	3.8	3.0	5.7	5.5	4.5	4.8	5.0
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	28.0	34.0	10.3	17.0	22.0	22.0	24.8	27.7	20.0	29.3	20.6	24.5	13.8	8.9	21.4	20.9	14.4	15.8	20.8
cis-1,2-Dichloroethene	6	6.4	8.0	4.2	5.4	6.0	5.9	8.9	7.6	5.8	7.8	8.1	8.6	4.6	3.4	6.1	6.2	4.7	5.8	7.6
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	4.1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	32.0	31.0	16.5	19.0	28.0	30.0	36.8	32.7	29.0	32.8	28.7	30.9	24.2	15.2	37.0	42.2	34.0	37.6	41.9
1,1,1-Trichloroethane	200	1.6	<5	<1	1.1	1.7	1.7	4.0	1.7	1.4	1.8	4.1	3.3	1.4	<1	1.6	1.8	1.3	1.6	2.2
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	2.0	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	50.0	52.0	33.3	33.0	40.0	39.0	58.4	44.5	37.0	39.6	39.6	30.4	36.1	24.9	37.4	46.3	29.0	32.3	37.2
Freon-113	1200	<0.5		<1	<0.5	<0.5	1.8	<5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	3.6	<10	<1	5.6	3.1	2.9	<1	3.4	2.7	3.0	4.5	1.9	1.9	<1	2.4	2.7	<1	3.4	3.7
Total Halogenated Hydrocarbons		129.3	135.0	66.8	86.3	107.1	110.24	147.9	123.6	102.1	120.4	113.3	106.0	85.8	55.4	111.6	125.6	87.9	101.3	118.4
Total Concentration of VOCs		129.3	135.0	66.8	86.3	107.1	110.24	147.9	123.6	102.1	120.4	113.3	106.0	85.8	55.4	111.6	125.6	87.9	101.3	118.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis
† = Analysis by AEN

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-93-3 (continued)														
		Jun-98	Sep-98	Nov-98	Feb-99	May-99#	Feb-00	Aug-00	Feb-01	Sep-01	Feb-02	Sep-02	Feb-03	Aug-03*	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<1	<1	1.1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	4.4	3.7	2.7	3.2	3.1	3.7	4.8	4.1	6.9	9.1	8.0	7.9	6.9	6.8	8.2
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	17.8	11.7	7.7	9.8	9.1	10.1	12.7	9.2	19.5	18.0	12.5	10.4	9.0	12.5	22.1
cis-1,2-Dichloroethene	6	7.0	6.3	4.9	6.3	5.7	6.7	6.8	4.7	7.5	6.4	4.3	4.6	4.8	4.7	6.1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	39.1	29.9	18.5	23.1	20.0	33.2	35.2	28.9	60.0	54.1	30.4	26.8	26.0	22.8	36.1
1,1,1-Trichloroethane	200	2.3	1.5	1.0	1.4	<1	2.1	1.8	1.3	2.6	3.5	1.9	1.4	1.2	<1	1.5
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	32.8	22.8	16.2	20.5	16.2	18.8	22.2	17.7	35.6	33.2	19.8	17.8	17.0	18.8	27.6
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	4.8	2.3	1.2	2.2	1.8	1.9	2.0	1.6	2.4	2.5	2.2	3.9	2.3	2.4	1.9
Total Halogenated Hydrocarbons		108.2	78.2	52.2	67.6	55.9	76.5	85.5	67.5	134.5	126.8	79.1	72.8	67.2	68.0	103.5
Total Concentration of VOCs		108.2	78.2	52.2	67.6	55.9	76.5	85.5	67.5	134.5	126.8	79.1	72.8	67.2	68.0	103.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Sample was analyzed after holding time expired
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-11 (well is on annual sampling)																			
		Jun-95	(D)*	Sep-95	Dec-95	Feb-96	Jun-96	Aug-96	Nov-96	Mar-97	May-97	Jun-98	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Aug-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	4.0	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	4.2	1.4	2.6	2.3	1.5	<1	1.0	<1	1.5	1.5	1.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	4.9	0.92	1.5	<1	1.4	1.1	<1	<1	1.0	<1	1.4	1.7	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	4.3	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	1.2	1.7	1.6	1.3	<1	<1	<1	1.3	1.3	3.7	2.2	1.8	<1	<1	<1	<1	<1	0.51	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	15.2	12.0	15.3	11.9	12.3	5.7	9.0	5.5	11.4	10.0	11.5	7.4	6.5	4.9	4.3	3.0	3.7	2.7	1.8	1.9
Freon-113	1200	<5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		32.6	15.5	21.1	15.8	16.5	6.8	10.0	5.5	15.2	12.8	18.1	11.3	8.3	4.9	4.3	3.0	3.7	2.7	2.31	1.9
Total Concentration of VOCs		32.6	15.5	21.1	15.8	16.5	6.8	10.0	5.5	15.2	12.8	18.1	11.3	8.3	4.9	4.3	3.0	3.7	2.7	2.31	1.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-18 (well is on semi-annual sampling)																											
		Aug-95	Sep-95	(D)*	Dec-95	Feb-96	Jun-96	Sep-96	Dec-96	Feb-97	May-97	Sep-97	Dec-97	Feb-98	May-98	Aug-98	Dec-98	Feb-99	May-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	3.4	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	10.4	11.7	9.7	13.2	9.1	9.9	9.3	15.0	2.6	7.8	11.0	7.4	1.6	4.5	4.2	6.4	2.0	4.2	2.0	5.6	2.1	4.3	1.9	3.0	2.4	4.6	1.4	3.2
1,2-Dichloroethane	0.5	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	42.8	45.0	32.0	49.6	24.5	42.7	11.3	64.7	8.2	20.3	20.2	21.2	3.7	17.7	16.3	15.1	6.5	9.5	6.4	15.2	6.7	14.4	7.8	8.5	7.0	12.6	4.6	10.4
cis-1,2-Dichloroethene	6	10.3	11.3	8.2	12.1	7.4	11.0	8.4	12.0	3.1	7.7	9.4	7.1	2.0	6.1	5.7	8.5	2.8	6.0	3.7	7.6	3.5	5.7	2.9	3.9	3.5	7.6	2.7	5.4
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	25.4	27.7	25.0	26.4	15.6	22.7	9.8	35.4	6.8	10.7	16.6	19.8	6.6	13.0	12.2	11.9	6.8	8.7	8.9	12.9	5.1	9.9	6.0	5.8	5.5	8.1	4.3	7.0
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	41.2	40.8	40.0	41.5	24.1	27.1	31.6	62.9	10.9	23.3	33.3	28.6	6.1	20.3	20.9	22.3	9.1	14.7	8.2	20.2	7.3	17.4	8.8	13.1	8.8	15.2	6.1	11.4
Freon-113	1200	<5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		130.1	136.5	114.9	142.8	80.7	113.4	70.4	190.0	31.6	69.8	90.5	84.1	20.0	61.6	59.3	64.2	27.2	43.1	29.2	61.5	24.7	55.1	27.4	34.3	27.2	48.1	19.1	37.4
Total Concentration of VOCs		130.1	136.5	114.9	142.8	80.7	113.4	70.4	190.0	31.6	69.8	90.5	84.1	20.0	61.6	59.3	64.2	27.2	43.1	29.2	61.5	24.7	55.1	27.4	34.3	27.2	48.1	19.1	37.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-19 (well is on semi-annual sampling)																	
		Dec-95 (G)	Feb-96	Jun-96	Sep-96	(D)*	Dec-96*	Mar-97	Jun-97	Sep-97	Nov-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	May-99	Sep-99	Nov-99
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		4.9	26.2	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		4.9	26.2																
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	10.7	7.0	3.3	1.3	1.4	1.2	3.3	<1	1.1	3.0	1.2	1.8	1.2	<1	1.9	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<0.5	1.9	<1	<1	<1	<1	<1	<1	1.1	1.3	1.2	1.3	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<0.5	<0.5	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	13.3	3.7	3.4	4.7	34.4	9.0	12.2	5.0	10.3	15.5	17.1	18.3	37.3	31.7	21.9	16.2
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	2.0	6.2	1.4	2.0	5.5	61.8	5.5	16.7	6.7	10.9	3.1	7.0	5.8	18.5	8.3	2.4	8.2
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	1.4	10.6	24.9	12.0	12.0	23.0	172.0	29.1	52.8	24.7	43.1	33.3	41.7	47.8	107.0	73.1	51.7	50.3
Freon-113	1200	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		12.1	19.6	47.7	18.4	18.8	34.4	275.1	43.6	82.8	39.4	65.5	53.7	67.0	73.0	166.0	114.3	77.3	74.7
Total Concentration of VOCs		17.0	45.8	47.7	18.4	18.8	34.4	275.1	43.6	82.8	39.4	65.5	53.7	67.0	73.0	166.0	114.3	77.3	74.7

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-19 (Cont'd)													
		May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Dec-01	Mar-02	May-02	Sep-02	Feb-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<30	<3	<3	<3	<3	<3	<3	<3	8.2	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<10	1.3	2.2	1.9	1.5	1.3	1.8	1.9	2.0	1.5	1.2	1.9	1.3
1,2-Dichloroethane	0.5	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<10	<1	1.2	1.3	<1	<1	1.5	<1	1.5	<1	<1	1.8	<1
cis-1,2-Dichloroethene	6	47.9	49.6	34.5	126.6	96.7	62.4	47.9	133.8	91.0	166.4	139.0	109.0	195.0	143.0
trans-1,2-Dichloroethene	10	<1	<10	<1	1.5	1.4	<1	<1	1.8	<1	1.8	1.5	<1	2.2	1.8
Methylene Chloride	5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	7.9	46.3	8.2	11.0	7.9	6.3	3.5	10.2	13.5	22.7	11.6	8.6	31.0	24.0
1,1,1-Trichloroethane	200	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	44.5	127.7	49.7	96.7	69.5	63.1	41.1	102.5	92.7	138.9	86.2	71.5	147.0	124.0
Freon-113	1200	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<10	<1	1.3	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		100.3	223.6	93.7	240.5	178.7	133.3	93.8	252.7	199.1	341.5	239.8	190.3	378.9	294.1
Total Concentration of VOCs		100.3	223.6	93.7	240.5	178.7	133.3	93.8	252.7	199.1	341.5	239.8	190.3	378.9	294.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-20 (well is on semi-annual sampling)																
		Aug-95 (G)	Oct-95	Dec-95	Mar-96	May-96†	Jun-96	Aug-96	Dec-96*	Mar-97	Jun-97	Aug-97	Nov-97	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<1	<5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<1		<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<2	<10	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	6.7	5.2	2.0	6.9	<5	3.1	1.9	1.5	4.0	3.0	1.4	1.4	6.7	5.0	1.4	1.5	1.5
1,1-Dichloroethane	5	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<1	<5	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	6.5	7.7	3.3	1.3	0.85	3.1	1.9	<1	<1	7.9	4.7	1.5	1.0	6.8
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	14.5	<1	<1	11.1	20.0	7.5	2.8	3.3	8.1	4.6	2.0	3.1	25.9	17.5	5.6	5.3	13.4
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	3.2	<1	<1	8.0	19.0	4.8	2.9	3.0	7.4	5.0	1.8	2.6	23.5	14.4	4.0	3.8	10.4
Freon-113	1200	<5	<1	<1	<1		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		24.4	5.2	2.0	32.5	46.7	18.7	8.9	8.65	22.6	14.5	5.2	7.1	64.0	41.6	12.5	11.6	32.1
Total Concentration of VOCs		24.4	5.2	2.0	32.5	46.7	18.7	8.9	8.65	22.6	14.5	5.2	7.1	64.0	41.6	12.5	11.6	32.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis
* = Analysis by BC Laboratories

† = Analysis by California Laboratory Services
(G) = Grab sample
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-95-20 (continued) May-99	Sep-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Mar-01	May-01	Aug-01	Nov-01	Mar-02	May-02	Aug-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	3.1		
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	2.9	2.9	1.4	3.8	3.1	<3	<3	<3	3.2	<3	<3	3.0	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	5.1	2.1	1.0	5.3	1.4	<1	<1	<1	5.9	2.0	<1	7.1	1.5	3.1	4.1	2.7	6.1	1.9
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	11.8	4.8	3.9	29.4	7.0	4.0	3.6	6.5	12.0	4.7	3.9	15.4	3.7	7.7	15.0	6.1	12.8	6.5
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	8.4	5.2	3.1	15.8	5.5	2.9	2.8	4.0	12.2	4.5	4.1	14.7	6.0	8.6	11.9	5.5	10.0	5.0
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		28.2	15.0	9.4	55.5	17.0	6.9	6.4	10.5	33.3	11.2	8.0	40.2	11.2	19.4	31.0	14.3	28.9	13.4
Total Concentration of VOCs		28.2	15.0	9.4	55.5	17.0	6.9	6.4	10.5	33.3	11.2	8.0	40.2	11.2	19.4	31.0	17.4	28.9	13.4

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	58-96-11 Nov-96 (G)	Jan-97	(D)*	Mar-97	(D)*	Mar-97	Jun-97	Sep-97	(D)*	Dec-97	(D)	Mar-98	Jun-98	Sep-98	(D)*	Nov-98	Dec-98	Mar-99	Jun-99	(D)*	Oct-99	(D)*	Nov-99	(D)*	Mar-00	(D)*
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	1.5	<500	<500	<500	<30	<50	1.2	<500	0.83	<100	<20
Bromobenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
n-Butylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
sec-Butylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
ter-Butylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
1,2-Dichlorobenzene	600	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
1,4-Dichlorobenzene	5	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	0.89	<500	0.51	<100	<20
Ethylbenzene	300	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Hexachlorobutadiene		<150	<30	<500	<300	<200	<300	<300	<300	<200	<1500	<3	<150	<1500	<1500	<900	<3	<1500	<1500	<1500	<30	<150	<0.5	<1500	<0.5	<300	<20
Isopropylbenzene		<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	<2	<100	<1000	<1000	<900	<2	<1000	<1000	<1000	<30	<100	<0.5	<1000	<0.5	<200	<20
p-Isopropyltoluene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Methyl tert-Butyl Ether								<500	<500		<2500		<250	<2500	<2500		<5	<2500	<2500	<2500	<30	<250	<0.5	<2500	<0.5	<500	<20
Naphthalene		<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	<2	<100	<1000	<1000	<900	<2	<1000	<1000	<1000	<30	<100	<0.5	<1000	<0.5	<200	<20
n-Propylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Toluene	150	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	2.0	<500	<500	<500	<30	<50	1.8	<500	0.98	<100	<20
1,2,4-Trimethylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
1,3,5-Trimethylbenzene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Xylenes, total	1750	<100	<20	<1000	<200	<400	<200	<200	<200	<300	<1000	<2	<100	<1000	<1000	<2000	<2	<1000	<1000	<1000	<50	<100	<1	<1000	<1	<200	<50
Total Aromatic Hydrocarbons																	3.5						3.89		2.32		
Halogenated Non-Aromatic Hydrocarbons																											
Bromodichloromethane	100	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Bromoform		<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	<2	<100	<1000	<1000	<900	<2	<1000	<1000	<1000	<30	<100	2.0	<1000	<0.5	<200	<20
Carbon Tetrachloride	0.5	2470	1090	1000	632.0	810.0	1320	389.0	455.0	540.0	<500	269.0	845.0	<500	<500	<900	213.0	<500	863.0	1230	1400	224.0	220.0	<500	16.0	<100	24.0
Chloroform	100	365.0	50.8	<500	107.0	<200	103.0	258.0	222.0	280.0	<500	185.0	128.0	<500	<500	<900	256.0	<500	<500	<500	100.0	149.0	130.0	<500	130.0	<100	28.0
Dibromochloromethane		<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	<2	<100	<1000	<1000	<900	<2	<1000	<1000	<1000	<30	<100	<0.5	<1000	<0.5	<200	<20
Dibromomethane		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
1,1-Dichloroethane	5	<50	20.0	<500	<100	<200	<100	<100	<100	<200	<500	36.7	<50	<500	<500	<900	50.8	<500	<500	<500	46.0	<50	34.0	<500	23.0	<100	<20
1,2-Dichloroethane	0.5	<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	12.9	<100	<1000	<1000	<900	1.5	<1000	<1000	<1000	<30	<100	9.0	<1000	7.0	<200	<20
1,1-Dichloroethene	6	175.0	200.0	<500	179.0	220.0	231.0	237.0	276.0	330.0	<500	214.0	271.0	<500	<500	<900	280.0	<500	<500	<500	350.0	182.0	210.0	<500	170.0	<100	30.0
cis-1,2-Dichloroethene	6	565.0	738.0	720.0	881.0	1100	1030	1010	1160	1200	779.0	855.0	884.0	749.0	804.0	1200	1140	908.0	806.0	1030	1200	588.0	890.0	<500	580.0	298.0	190.0
trans-1,2-Dichloroethene	10	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	10.3	<50	<500	<500	<900	9.8	<500	<500	<500	<30	<50	8.8	<500	5.7	<100	<20
1,3-Dichloropropane		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
2,2-Dichloropropane		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
cis-1,3-Dichloropropene		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
1,2,3-Trichloropropane		<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Methylene Chloride	5	<50	<10	<1000	<100	<400	<100	<100	<100	<300	<500	<1	<50	<500	<500	<2000	<1	<500	<500	<500	<50	<50	5.6	<500	7.8	<100	<50
1,1,1,2-Tetrachloroethane		<100	<20	<500	<200	<200	<200	<200	<200	<200	<1000	16.9	<100	<1000	<1000	<900	<2	<1000	<1000	<1000	85.0	<100	18.0	<1000	<0.5	<200	<20
1,1,2,2-Tetrachloroethane	1	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Tetrachloroethene	5	27,700	18,850	18,000	15,800	19,000	21,400	28,700	25,200	29,000	22,400	18,000	26,800	17,900	27,200	28,000	34,400	25,600	30,400	38,300	37,000	12,200	20,000	11,800	14,000	4,170	3,300
1,1,1-Trichloroethane	200	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	1.3	<100	23.0
1,1,2-Trichloroethane	5	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	13.8	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	7.9	<500	8.2	<100	<20
Trichloroethene	5	65,800	21,950	19,000	25,100	28,000	27,600	35,000	29,200	39,000	28,200	23,000	32,700	23,000	30,300	36,000	35,300	30,200	31,800	35,700	40,000	17,800	23,000	14,100	16,000	4,020	4,100
Freon-113	1200	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	<1	<50	<500	<500	<900	<1	<500	<500	<500	<30	<50	<0.5	<500	<0.5	<100	<20
Vinyl Chloride	0.5	<50	<10	<500	<100	<200	<100	<100	<100	<200	<500	7.6	<50	<500	<500	<900	4.7	<500	<500	<500	<30	<50	4.4	<500	4.3	<100	<20
Total Halogenated Hydrocarbons		97,075	42,899	38,720	42,699	49,130	51,684	65,594	56,513	70,350	51,379	42,621	61,628	41,649	58,304	65,200	71,656	56,708	63,869	76,260	80,181	31,143	44,540	25,900	30,953	8,488	7,695
Total Concentration of VOCs		97,075	42,899	38,720	42,699	49,130	51,684	65,594	56,513	70,350	51,379	42,621	61,628	41,649	58,304	65,200	71,659	56,708	63,869	76,260	80,181	31,143	44,544	25,900	30,956	8,488	7,695

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	58-96-11 (continued) May-00	(D)*	Jul-00	Sep-00	(D)*	Nov-00	(D)*	Jan-01	Apr-01	Jun-01	(D)*	Sep-01	(D)*	Dec-01	Mar-02	May-02	Sep-02	Nov-02	Feb-03	(D)*	Apr-03	Sep-03	Dec-03	Mar-04	(D)*	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<100	<0.5	<5	<10	<70	<10	0.69	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	0.65	<500	<500	<500	<100	<20	<50	<50
Bromobenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
n-Butylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
sec-Butylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
ter-Butylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,2-Dichlorobenzene	600	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,4-Dichlorobenzene	5	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	0.61	<500	<500	<500	<100	<20	<50	<50
Ethylbenzene	300	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Hexachlorobutadiene		<300	<0.5	<15	<30	<70	<30	<0.5	<300	<300	<30	<0.5	<30	<0.5	<300	<30	<300	<300	<300	<300	<0.5	<1500	<1500	<1500	<300	<20	<150	<150
Isopropylbenzene		<200	<0.5	<10	<20	<70	<20	<0.5	<200	<200	<20	<0.5	<20	<0.5	<200	<20	<200	<200	<200	<200	<0.5	<1000	<1000	<1000	<200	<20	<100	<100
p-Isopropyltoluene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Methyl tert-Butyl Ether		<500	<0.5	<25	<50	<70	<50	0.53	<500	<500	<50	<0.5	<50	<0.5	<500	<50	<500	<500	<500	<500	<0.5	<2500	<2500	<2500	<500	<20	<250	<250
Naphthalene		<200	<0.5	<10	21.3	<70	<20	<0.5	<200	<200	<20	<0.5	<20	<0.5	<200	<20	<200	<200	<200	<200	<0.5	<1000	<1000	<1000	<200	<20	<100	<100
n-Propylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Toluene	150	<100	0.74	<5	<10	<70	<10	0.83	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	1.8	<500	<500	<500	<100	<20	<50	<50
1,2,4-Trimethylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,3,5-Trimethylbenzene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Xylenes, total	1750	<200	<1	<10	<20	<200	<20	<1	<200	<200	<20	<1	<20	<1	<200	<20	<200	<200	<200	<200	<1	<1000	<1000	<1000	<200	<30	<100	<100
Total Aromatic Hydrocarbons			0.74		21.3			2.05													3.06							
Halogenated Non-Aromatic Hydrocarbons																												
Bromodichloromethane	100	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Bromoform		<200	2.0	<10	<20	<70	<20	3.7	<200	<200	<20	1.9	<20	<0.5	<200	<20	<200	<200	<200	<200	3.7	<1000	<1000	<1000	<200	<20	<100	<100
Carbon Tetrachloride	0.5	<100	70.0	<5	37.2	<70	548.8	430.0	286.8	<100	75.4	83.0	12.7	12.0	349.7	191.2	270.1	126.7	<100	638.0	560.0	563.0	<500	<500	<100	75.0	97.4	<50
Chloroform	100	<100	41.0	<15	<30	<70	33.6	30.0	<300	<300	<30	6.7	<30	3.8	<300	<30	<300	<300	<300	<300	27.0	<1500	<1500	<1500	<300	<20	<150	<150
Dibromochloromethane		<200	<0.5	<10	<20	<70	<20	<0.5	<200	<200	<20	<0.5	<20	<0.5	<200	<20	<200	<200	<200	<200	<0.5	<1000	<1000	<1000	<200	<20	<100	<100
Dibromomethane		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,1-Dichloroethane	5	<100	10.0	<5	<10	<70	14.7	16.0	<100	<100	<10	3.7	<10	1.6	<100	<10	<100	<100	<100	<100	18.0	<500	<500	<500	<100	<20	<50	<50
1,2-Dichloroethane	0.5	<200	4.0	<10	<20	<70	<20	4.2	<200	<200	<20	1.8	<20	1.5	<200	<20	<200	<200	<200	<200	4.6	<1000	<1000	<1000	<200	<20	<100	<100
1,1-Dichloroethene	6	<100	55.0	<5	<10	<70	79.8	95.0	<100	<100	<10	13.0	<10	2.4	<100	55.1	<100	<100	<100	106.0	100.0	<500	<500	<500	<100	<20	<50	<50
cis-1,2-Dichloroethene	6	287.0	210.0	30.9	128.1	150.0	390.1	460.0	289.7	<100	87.1	97.0	50.3	56.0	272.7	182.1	138.8	118.4	102.5	378.0	380.0	<500	<500	<500	<100	49.0	59.6	<50
trans-1,2-Dichloroethene	10	<100	5.3	<5	<10	<70	<10	3.8	<100	<100	<10	1.8	<10	1.3	<100	<10	<100	<100	<100	<100	7.7	<500	<500	<500	<100	<20	<50	<50
1,3-Dichloropropane		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
2,2-Dichloropropane		<100	<0.5	29.7	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
cis-1,3-Dichloropropene		<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,2,3-Trichloropropane		<100	<0.5	<5	15.0	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Methylene Chloride	5	<100	3.8	<5	<10	<200	<10	<1	<100	<100	<10	<1	<10	<1	<100	<10	<100	<100	<100	<100	<1	<500	<500	<500	<100	47.0†	<50	<50
1,1,1,2-Tetrachloroethane		<200	11.0	<10	<20	<70	41.9	24.0	<200	<200	<20	7.8	<20	7.4	<200	<20	<200	<200	<200	<200	34.0	<1000	<1000	<1000	<200	<20	<100	<100
1,1,2,2-Tetrachloroethane	1	<100	<0.5	<5	1.6	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
Tetrachloroethene	5	7,070	2,200	727.0	1,485	1,700	10,907	9,200	8,095	2,624	3,001#	1,800	621.4	390.0	6,933	6,558	5,286	5,271	4,406	15,300	14,000	9,610	9,440	3,010	1,690	1,800	2,360	1,270
1,1,1-Trichloroethane	200	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	<0.5	<500	<500	<500	<100	<20	<50	<50
1,1,2-Trichloroethane	5	<100	4.6	<5	<10	<70	<10	5.5	<100	<100	<10	2.4	<10	2.1	<100	<10	<100	<100	<100	<100	5.2	<500	<500	<500	<100	<20	<50	<50
Trichloroethene	5	9,070	3,300	751.0	1,958	2,100	8,891	11,000	6,390	2,963	2,220#	1,800	935.0	580.0	6,940	6,248	5,319	5,082	4,035	14,200	13,000	7,440	6,590	2,650	1,300	1,200	1,720	1,020
Freon-113	1200	<100	<0.5	<5	<10	<70	<10	<0.5	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	0.85	<500	<500	<500	<100	<20	<50	<50
Vinyl Chloride	0.5	<100	1.4	<5	<10	<70	<10	0.95	<100	<100	<10	<0.5	<10	<0.5	<100	<10	<100	<100	<100	<100	1.4	<500	<500	<500	<100	<20	<50	<50
Total Halogenated Hydrocarbons		16,427	5,918	1538.6	3,625	3,950	20,907	21,273	15,061	5,586	5,383#	3,819	1,619.4	1,058.1	14,496	13,235	11,013	10,599	8,543	30,622	28,142	17,613	16,030	5,660	2,990	3,171	4,237	2,290
Total Concentration of VOCs		16,427	5,919	1538.6	3,647	3,950	20,907	21,275	15,061	5,586	5,383#	3,819	1,619.4	1,058.1	14,496	13,235	11,013	10,599	8,543	30,622	28,146	17,613	16,030	5,660	2,990	3,171	4,237	2,290

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
#Values are estimated, outside calibration curve

†Per BC Labs, detection possibly due to lab contamination

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-00-12 Jun-01	(D)*	Dec-01	(D)*	Mar-02	Jun-02	(D)*	Sep-02	(D)*	Nov-02	(D)*	Feb-03	(D)*	Apr-03	(D)*	Jul-03*	Aug-03*	Sep-03
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	1.4	<100	<1000
n-Butylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
sec-Butylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
ter-Butylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
1,2-Dichlorobenzene	600	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	0.60	<100	<1000
1,4-Dichlorobenzene	5	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	2.6	<100	<1000
Ethylbenzene	300	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Hexachlorobutadiene		<300	740.0	<3000	<100	<1500	<3000	<50	<3000	<50	<3000	<100	<500	<200	<500	<100	<0.5	<100	<3000
Isopropylbenzene		<200	<500	<2000	<100	<1000	<2000	<50	<2000	<50	<2000	<100	<1000	<200	<1000	<100	<0.5	<100	<2000
p-Isopropyltoluene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Methyl tert-Butyl Ether	13	<500	<500	<5000	<100	<2500	<5000	<50	<5000	<50	<5000	<100	<2500	<200	<2500	<100	<0.5	<100	<5000
Naphthalene		<200	<500	<2000	<100	<1000	<2000	<50	<2000	<50	<2000	<100	<1000	<200	<1000	<100	<0.5	<100	<2000
n-Propylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Toluene	150	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	6.6#	<100	<1000
1,2,4-Trichlorobenzene	5	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
1,2,4-Trimethylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
1,3,5-Trimethylbenzene		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Xylenes, total	1750	<200	<1000	<2000	<200	<1000	<2000	<100	<2000	<100	<2000	<200	<1000	<300	<1000	<200	3.2	<200	<2000
Total Aromatic Hydrocarbons			740.0														14.4		
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane		<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Bromoform		<200	<500	<2000	<100	<1000	<2000	<50	<2000	<50	<2000	<100	<1000	<200	<1000	<100	14.0	<100	<2000
Carbon Tetrachloride	0.5	1,811	1,600	1,948	1,700	1,749	<1000	670.0	1,790	1,500	1,756	1,200	2,130	2,300	1,830	2,500	2,300	1,700	<1000
Chloroform	100	<300	<500	<3000	<100	<1500	<3000	99.0	<3000	89.0	<3000	<100	<1500	<200	<1500	<100	65.0	<100	<3000
1,1-Dichloroethane	5	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	29.0	<100	<1000
1,2-Dichloroethane	0.5	<200	<500	<2000	<100	<1000	<2000	<50	<2000	<50	<2000	<100	<1000	<200	<1000	<100	6.6	<100	<2000
1,1-Dichloroethene	6	210.5	<500	<1000	250.0	<500	<1000	160.0	<1000	230.0	<1000	170.0	<500	320.0	<500	300.0	310.0	220.0	<1000
cis-1,2-Dichloroethene	6	451.2	700.0	<1000	700.0	<500	<1000	420.0	<1000	540.0	<1000	400.0	556.0	720.0	630.0	670.0	680.0	460.0	<1000
trans-1,2-Dichloroethene	10	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	13.0	<100	<1000
Methylene Chloride	5	<100	2,100	<1000	<200	<500	<1000	<100	<1000	<100	<1000	<200	<500	<300	<500	1,600	7.6##	<200	<1000
1,1,1,2-Tetrachloroethane		<200	<500	<2000	<100	<1000	<2000	<50	<2000	<50	<2000	<100	<1000	<200	<1000	<100	<0.5	<200	<2000
Tetrachloroethene	5	45,262	38,000	54,653	52,000	53,393	32,055	32,000	52,225	41,000	47,636	39,000	60,200	43,000	57,700	41,000	64,000	47,000	49,800
1,1,1-Trichloroethane	200	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	3.9	<100	<1000
1,1,2-Trichloroethane	5	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	14.0#	<100	<1000
Trichloroethene	5	34,411	33,000	40,126	37,000	41,750	31,221	28,000	38,248	31,000	37,021	33,000	45,400	35,000	42,200	34,000	37,000	29,000	30,800
Freon-113	1200	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	<0.5	<100	<1000
Vinyl Chloride	0.5	<100	<500	<1000	<100	<500	<1000	<50	<1000	<50	<1000	<100	<500	<200	<500	<100	28.0	<100	<1000
Total Halogenated Hydrocarbons		82,146	75,400	96,727	91,650	96,892	63,276	61,349	92,262	74,359	86,412	73,770	108,286	81,340	102,360	80,070	104,471	78,380	80,600
Total Concentration of VOCs		82,146	76,140	96,727	91,650	96,892	63,276	61,349	92,262	74,359	86,412	73,770	108,286	81,340	102,360	80,070	104,486	78,380	80,600

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Lim (D) = Duplicate sample
* = Analysis by BC Laboratories

#=surrogate recovery not within control limits
##=continuing calibration recovery not within control limits

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58-00-12 (continued) Oct-03	Nov-03	(D)*	Dec-03*	Jan-04	Feb-04	Mar-04	(D)*	Mar-04	Apr-04	May-04	(D)*	Jun-04	Jul-04	Aug-04	(D)*	Sep-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1000	<1000	<100	0.90	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
n-Butylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
sec-Butylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
ter-Butylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,2-Dichlorobenzene	600	<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,4-Dichlorobenzene	5	<1000	<1000	<100	0.82	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Ethylbenzene	300	<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Hexachlorobutadiene		<3000	<3000	<100	<0.5	<3000	<500	<500	<300	<500	<3000	<3000	<300	<500	<3000	<3000	<500	<3000
Isopropylbenzene		<2000	<2000	<100	<0.5	<2000	<1000	<1000	<300	<1000	<2000	<2000	<300	<1000	<2000	<2000	<500	<2000
p-Isopropyltoluene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Methyl tert-Butyl Ether	13	<5000	<5000	<100	<0.5	<5000	<2500	<2500	<300	<2500	<5000	<5000	<300	<2500	<5000	<5000	<500	<5000
Naphthalene		<2000	<2000	<100	<0.5	<2000	<1000	<1000	<300	<1000	<2000	<2000	<300	<1000	<2000	<2000	<500	<2000
n-Propylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Toluene	150	<1000	<1000	<100	3.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,2,4-Trichlorobenzene	5	<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,2,4-Trimethylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,3,5-Trimethylbenzene		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Xylenes, total	1750	<2000	<2000	<200	<0.5	<2000	<1000	<1000	<500	<1000	<2000	<2000	<500	<1000	<2000	<2000	<1000	<2000
Total Aromatic Hydrocarbons					5.2													
Halogenated Non-Aromatic Hydrocarbons																		
Bromodichloromethane		<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Bromoform		<2000	<2000	<100	9.7	<2000	<1000	<1000	<300	<1000	<2000	<2000	<300	<1000	<2000	<2000	<500	<2000
Carbon Tetrachloride	0.5	1,600	1,750	1,700	<0.5	1,170	1,370	1,690	1,600	1,510	1,590	1,000	1,000	1,450	<1000	1,570	1,500	1,240
Chloroform	100	<3000	<3000	<100	33.0	<3000	<1500	<1500	<300	<1500	<3000	<3000	<300	<1500	<3000	<3000	<500	<3000
1,1-Dichloroethane	5	<1000	<1000	<100	24.0	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,2-Dichloroethane	0.5	<2000	<2000	<100	4.9	<2000	<1000	<1000	<300	<1000	<2000	<2000	<300	<1000	<2000	<2000	<500	<2000
1,1-Dichloroethene	6	<1000	<1000	180.0	190.0	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
cis-1,2-Dichloroethene	6	<1000	<1000	410.0	420.0	<1000	<500	620.0	480.0	<500	<1000	<1000	560.0	<500	<1000	<1000	<500	<1000
trans-1,2-Dichloroethene	10	<1000	<1000	<100	9.8	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Methylene Chloride	5	<1000	<1000	<200	6.0	<1000	<500	<500	740.0^	<500	<1000	<1000	990.0	<500	<1000	<1000	<1000	<1000
1,1,1,2-Tetrachloroethane		<2000	<2000	<100	72.0	<2000	<1000	<1000	<300	<1000	<2000	<2000	<300	<1000	<2000	<2000	<500	<2000
Tetrachloroethene	5	46,900	53,500	53,000	29,000†	32,600	32,200	38,400	44,000	37,500	35,300	34,100	36,000	48,000	19,800	46,600	45,000	22,500
1,1,1-Trichloroethane	200	<1000	<1000	<100	3.3	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
1,1,2-Trichloroethane	5	<1000	<1000	<100	6.8	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Trichloroethene	5	32,600	32,300	29,000#	21,000	22,700	23,100	24,700	23,000	22,700	21,100	18,300	22,000	24,300	13,700	24,200	22,000	13,000
Freon-113	1200	<1000	<1000	<100	<0.5	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Vinyl Chloride	0.5	<1000	<1000	<100	28.0	<1000	<500	<500	<300	<500	<1000	<1000	<300	<500	<1000	<1000	<500	<1000
Total Halogenated Hydrocarbons		81,100	87,550	84,290	50,808	56,470	56,670	65,410	69,820	61,710	57,990	53,400	60,550	73,750	33,500	72,370	68,500	36,740
Total Concentration of VOCs		81,100	87,550	84,290	50,813	56,470	56,670	65,410	69,820	61,710	57,990	53,400	60,550	73,750	33,500	72,370	68,500	36,740

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
†Detected in CCB above PQL
^Per BC Labs, detection possibly due to lab contamination

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58A-94-14 (well is on semi-annual sampling)																															
		Dec-94	(D)*	Feb-95*	Mar-95*	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96	Sep-96	Dec-96	(D)*	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																																	
Benzene	1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																																	
Halogenated Non-Aromatic Hydrocarbons																																	
Carbon Tetrachloride	0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	7.5	2.0	0.95	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<6	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	17.0	16.0	11.0	21.5	16.2	19.4	30.8	18.0	15.5	20.2	17.0	19.6	14.4	19.6	16.2	25.4	16.0	13.0	14.1	15.3	11.8	16.9	10.8	16.0	14.6	13.7	8.8	11.4	11.2	10.8	7.9
1,2-Dichloroethane	0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	80.9	37.0	37.0	21.0	61.6	48.2	61.2	63.2	47.2	30.9	66.1	59.0	58.3	23.5	43.5	32.4	67.0	49.1	40.2	41.1	50.1	38.4	47.3	34.5	60.5	45.3	46.6	25.3	31.7	34.8	31.8	22.2
cis-1,2-Dichloroethene	6	48.9	28.0	34.0	33.0	61.5	48.7	66.2	92.3	60.4	54.0	66.4	64.0	64.8	48.0	51.1	48.9	94.1	58.6	68.8	69.4	83.5	68.2	63.9	57.2	74.5	64.4	75.1	52.6	59.2	58.8	56.5	40.5
trans-1,2-Dichloroethene	10	<1	<1	0.56	<0.5	2.3	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	56.3	29.0	14.0	10.0	35.7	13.0	11.9	8.5	9.6	4.3	8.6	10.0	5.6	5.2	10.5	7.3	7.3	6.4	4.1	4.1	3.1	1.7	4.0	<2	1.5	2.3	<1	<1	3.1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<0.5	3.1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	66.8	39.0	25.0	16.0	41.6	24.5	21.9	21.6	15.7	16.3	24.9	23.0	22.0	15.0	24.5	17.4	30.8	20.5	11.2	13.2	14.8	6.2	8.5	3.3	5.1	7.1	2.0	<1	3.7	4.1	1.5	1.1
Freon-113	1200	<1	<1	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<2	<1	<1	<1	<1	<1	<1	1.7	2.8
Total Halogenated Hydrocarbons		252.9	157.5	128.56	91.95	227.3	150.6	180.6	216.4	150.9	121.0	186.2	173.0	170.3	106.1	149.2	122.2	224.6	150.6	137.3	141.9	166.8	126.3	142.3	105.8	157.6	133.7	137.4	86.7	109.1	108.9	102.3	74.5
Total Concentration of VOCs		252.9	157.5	128.56	91.95	227.3	150.6	180.6	216.4	150.9	121.0	186.2	173.0	170.3	106.1	149.2	122.2	224.6	150.6	137.3	141.9	166.8	126.3	142.3	105.8	157.6	133.7	137.4	86.7	109.1	108.9	102.3	74.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 7 Well

Constituent	MCL	58A-00-3 Jun-00	(D)*	Sep-00	Nov-00	Jan-01	May-01	Aug-01	Nov-01	Mar-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	1.6	1.7	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						1.6	1.7	1.1												
Halogenated Non-Aromatic Hydrocarbons																				
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																				
Total Concentration of VOCs						1.6	1.7	1.1												

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW1-220 (well is on annual sampling)																								
		Nov-92	Feb-93	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Aug-94	Sep-94	Feb-95*	Mar-95*	Aug-95	Mar-96	Jul-96	Feb-97•	Feb-97	May-97	May-98*	Nov-98	Apr-99	Jul-00	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<3	<3	<3	<0.5	<3	<3	<3	<0.5	<3	<3	<3
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<3	<0.5	<3	<3	<3
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
Dibromomethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	<5	2.1	<1	<1	<1	<1	<1	<1	<1	6.2	1.0	<1	<1	<1	46.5	3.4	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<0.5	<1	<1	<1	9.2	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons			2.1								8.9	1.0				55.7	3.4									
Total Concentration of VOCs			2.1								8.9	1.0				55.7	3.4									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
• = Detections are probably due to cross contamination during sampling

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW90-2 (well is on semi-annual sampling)																										
		Nov-92	Feb-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Aug-94	Sep-94	Dec-94*	(D)*	Feb-95*	Mar-95*	May-95*	Jun-95	Jul-95	Aug-95	Sep-95	Nov-95	Mar-96	(S)*	Jun-96	Aug-96	Nov-96	Mar-97	Jun-97	Sep-97
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<3	<30	<3	<15
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<20	<2	<10
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<20	<2	<10
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<2	<2	<20	<2	<10
Total Aromatic Hydrocarbons																												
Halogenated Non-Aromatic Hydrocarbons																												
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	2.3	<1	<0.5	<1	<1	1.1	<10	<1	<5
Chloroform	100	7.1	2.4	2.6	2.5	4.0	2.7	1.8	2.5	1.4	2.9	3.3	2.5	1.7	2.0	5.6	2.0	2.5	2.5	3.0	2.6	1.2	1.6	2.1	3.2	<10	3.0	<5
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<20	<2	<10
Dibromomethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
1,1-Dichloroethane	5	10.6	3.0	4.5	3.3	5.3	2.7	1.3	3.7	1.7	3.6	3.7	2.3	1.5	2.1	5.6	2.3	3.2	3.6	4.5	1.6	1.1	1.4	2.6	4.3	<10	1.8	<5
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<20	<2	<10
1,1-Dichloroethene	6	16.9	3.1	6.6	6.8	13.1	3.9	2.4	12.7	6.2	6.4	6.6	2.3	2.4	4.3	4.0	3.0	10.1	11.3	17.5	3.5	1.9	3.6	8.9	18.5	<10	4.0	<5
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	1.0	1.0	<1	<1	<1	0.97	1.0	0.75	0.59	0.59	<1	<1	<1	<1	1.1	1.8	1.4	1.2	<1	<1	<10	<1	<5
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<5
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<2	<20	<2	<10
Tetrachloroethene	5	149.7	418.6	237.3	280.0	398.6	415.8	199.0	572.8	183.1	340.0	370.0	360.0	280.0	390.0	241.0	338.0	357.0	310.0	305.0	916.0	980.0	638.0	560.0	520.0	330.0	514.0	332.0
1,1,1-Trichloroethane	200	<5	7.5	8.2	4.9	5.1	8.5	4.1	5.7	1.7	4.9	5.1	6.3	4.8	5.7	6.2	5.0	4.5	3.8	3.8	10.2	8.8	7.6	3.9	3.2	<10	3.6	<5
1,1,2-Trichloroethane	5	6.9	5.7	3.8	2.0	2.4	11.7	1.2	3.0	<1	4.6	4.7	5.1	2.1	1.6	<1	2.2	<1	<1	3.9	3.2	2.7	2.1	1.6	1.6	<10	1.1	<5
Trichloroethene	5	47.3	38.1	53.0	61.3	92.7	46.0	21.0	109.6	65.6	50.0	55.0	30.0	26.0	39.0	27.9	28.7	45.4	54.9	130.0	36.4	33.0	27.3	72.7	95.5	53.1	55.4	52.4
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5
Total Halogenated Hydrocarbons		238.5	478.4	316.0	360.8	522.2	492.3	230.8	710.0	259.7	413.4	449.4	409.3	319.1	445.3	290.3	381.2	422.7	386.1	471.1	975.3	1031.5	682.8	651.8	647.4	383.1	582.9	384.4
Total Concentration of VOCs		238.5	478.4	316.0	360.8	522.2	492.3	230.8	710.0	259.7	413.4	449.4	409.3	319.1	445.3	290.3	381.2	422.7	386.1	471.1	975.3	1031.5	682.8	651.8	647.4	383.1	582.9	384.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

(S) = Split sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW90-2 (continued) Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	May-99	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Dec-00	Mar-01	May-01	Sep-01	Nov-01	Mar-02	May-02	Sep-02	Feb-03	Jul-03*	Aug-03*	Sep-03	Dec-03*	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Bromobenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Hexachlorobutadiene		<3	<3	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<0.5	<3	<0.5	<3	<3
Isopropylbenzene		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2	<1	<2	<2
Total Aromatic Hydrocarbons																												
Halogenated Non-Aromatic Hydrocarbons																												
Bromodichloromethane	100	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Chloroform	100	1.8	5.9	7.1	<10	2.7	2.7	1.3	2.9	2.6	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	0.61	0.58	<3	<0.5	<3	<3
Dibromochloromethane		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2
Dibromomethane		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,1-Dichloroethane	5	1.4	<1	<1	<10	<1	<1	<1	1.7	1.4	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2
1,1-Dichloroethene	6	3.4	2.9	4.6	<10	<1	<1	1.5	12.0	7.3	<1	<1	2.3	7.9	2.4	2.1	4.2	6.0	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<10	<1	<1	<1	<1	1.6	2.1	2.7	<1	<1	<1	<1	1.3	<1	<1	<1	<1	1.0	<0.5	<0.5	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,3-Dichloropropane		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
1,1-Dichloropropene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2
Tetrachloroethene	5	380.0	121.0	121.0	137.0	132.0	147.0	125.0	117.0	121.0	88.2	122.0	117.5	145.2	77.2	72.5	135.1	99.7	48.4	67.6	43.1	64.6	86.0	72.0	92.0	33.0	32.7	11.7
1,1,1-Trichloroethane	200	2.5	<1	<1	<10	<1	<1	<1	<1	<1	2.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.52	<0.5	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	1.5	<1	<1	<10	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Trichloroethene	5	36.8	41.4	34.5	30.6	21.5	17.7	18.2	67.1	51.4	4.3	6.6	23.9	46.2	4.9	4.1	25.1	27.4	2.4	3.6	7.2	3.2	4.5	3.6	<1	1.2	2.3	<1
Freon-113	1200	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		427.4	171.2	167.2	167.6	156.2	167.4	146.0	200.7	185.3	97.9	131.3	143.7	200.6	84.5	78.7	165.7	133.1	50.8	71.2	50.3	68.8	91.63	76.18	92.0	34.2	35.0	11.7
Total Concentration of VOCs		427.4	171.2	167.2	167.6	156.2	167.4	146.0	200.7	185.3	97.9	131.3	143.7	200.6	84.5	78.7	165.7	133.1	50.8	71.2	50.3	68.8	91.63	76.18	92.0	34.2	35.0	11.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW91-8 (well is on semi-annual sampling) Dec-92	Feb-93	Apr-93	May-93	Aug-93	Nov-93	Mar-94	(D)	Jun-94	Aug-94	Sep-94	Dec-94*	Feb-95*	Mar-95*	May-95*	Jul-95	Aug-95	Sep-95	Nov-95	Mar-96	(D)*	Jun-96	Aug-96
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<5	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<2	<2	<0.5	<2	<2
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons			1.0																					
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	2.5	2.1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	16.8	22.8	7.7	15.5	18.5	65.0	3.1	3.4	25.0	5.5	5.7	30.0	7.5	10.0	12.0	20.8	16.2	13.4	13.7	4.5	5.0	5.5	30.9
Chloroform	100	18.9	19.0	17.7	25.1	25.9	42.1	50.6	52.5	29.4	2.8	4.6	22.0	14.0	17.0	20.0	25.1	31.3	29.7	30.7	26.3	11.0	17.7	39.0
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Dibromomethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	2.2	<1	4.6	<1	<1	1.3	<1	<1	1.5	<0.5	0.51	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethene	6	15.3	1.6	1.9	5.7	4.4	21.8	1.7	1.9	7.6	<1	2.3	11.0	0.63	1.7	1.2	1.2	2.4	2.3	3.3	<1	<0.5	<1	4.5
cis-1,2-Dichloroethene	6	<5	1.1	1.4	1.6	2.0	5.1	<1	<1	3.1	<1	<1	3.0	1.4	1.8	1.6	1.9	2.5	2.3	2.1	1.7	1.4	1.8	2.0
trans-1,2-DCE	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Tetrachloroethene	5	38.9	25.4	39.0	47.2	52.3	340.7	20.7	19.9	113.6	40.1	40.1	150.0	16.0	36.0	33.0	31.7	46.5	38.3	47.4	13.7	13.0	38.5	119.0
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<1	0.60	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	35.6	23.8	27.5	38.4	39.9	139.5	17.8	18.4	59.4	25.1	28.9	79.0	17.0	23.0	24.0	16.3	32.1	28.6	39.6	13.8	13.0	17.6	62.9
Freon-113	1200	3.5	4.1	6.4	7.7	4.3	<1	1.3	1.3	19.2	<1	6.1	4.5	<0.5	0.70	0.57	<5	<5	1.1	<1	<1	<0.5	<1	3.2
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		129.0	97.8	101.6	143.4	147.3	620.2	97.7	99.5	258.6	73.5	87.7	301.6	56.5	90.71	92.37	97.0	131.0	115.7	136.8	60.0	43.4	81.1	261.5
Total Concentration of VOCs		129.0	98.8	101.6	143.4	147.3	620.2	97.7	99.5	258.6	73.5	87.7	301.6	56.5	90.71	92.37	97.0	131.0	115.7	136.8	60.0	43.4	81.1	261.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 2 Well

Constituent	MCL	MW91-8 (continued) Nov-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	Jun-99	Mar-00	Sep-00	Mar-01	Aug-01	Mar-02	Sep-02	Feb-03	Feb-03	Aug-03	Feb-04*	Jun-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Bromobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Hexachlorobutadiene		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<3	<3	<3	<0.5	<3	<3
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<10	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<10	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<1.0	<2	<2
Total Aromatic Hydrocarbons																	2.9							
Halogenated Non-Aromatic Hydrocarbons																								
Bromodichloromethane	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	19.7	5.7	19.7	23.7	18.2	7.0	4.8	2.0	5.2	2.4	8.1	3.7	9.9	2.7	7.6	5.8	19.3	<1	1.3	<1	<0.5	<1	2.5
Chloroform	100	38.9	13.7	41.8	35.5	28.7	22.0	17.2	9.8	12.9	7.6	16.0	8.8	16.7	4.4	10.0	12.7	<30	3.5	4.4	<3	<0.5	4.5	5.2
Dibromochloromethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<0.5	<2	<2
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	2.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	1.8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	2.9	4.1	3.2	<1	<1	<1	<1	<1	<1	<1	1.6	<1	2.0	<1	<10	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	1.1	2.4	2.1	2.0	2.0	1.5	<1	1.4	1.5	2.0	1.2	2.1	1.4	4.0	2.2	<10	<1	<1	<1	<0.5	<1	<1
trans-1,2-DCE	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,1-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
cis-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
trans-1,3-Dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	91.4	130.0	85.9	95.9	76.5	15.6	21.2	14.1	27.8	22.2	43.3	11.6	51.7	34.6	110.1	44.4	147.8	8.4	9.6	10.0	<0.5	4.9	11.9
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	10.7	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	53.9	28.7	49.1	46.5	35.9	17.6	12.0	7.7	12.4	11.8	18.4	9.4	23.0	16.9	52.7	22.4	66.8	6.8	7.0	3.9	<0.5	4.1	5.5
Freon-113	1200	1.3	<1	1.7	2.0	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		209.7	179.2	203.5	209.8	166.5	64.2	56.7	33.6	59.7	45.5	87.8	45.4	105.0	60.0	186.4	87.5	233.9	18.7	22.3	13.9		13.5	25.1
Total Concentration of VOCs		209.7	179.2	203.5	209.8	166.5	64.2	56.7	33.6	59.7	45.5	87.8	45.4	105.0	60.0	186.4	90.4	233.9	18.7	22.3	13.9		13.5	25.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	MW91-9 (well is on annual sampling)																											
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Feb-94	Jun-94	Aug-94	Nov-94*	Jan-95*	Sep-95	Mar-96	(D)*	Aug-96	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Feb-01	Aug-01	Feb-02	Sep-02	Aug-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	1.7	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons				1.7																									
Halogenated Non-Aromatic Hydrocarbons																													
Bromodichloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	1.1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	1.0	<1	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	2.3	<1	<1	<1	<1	<1	0.65	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	8.7	10.7	22.0	14.9	12.0	10.0	8.1	8.5	10.0	13.0	14.1	12.7	13.0	8.0	8.8	7.9	10.2	7.0	8.4	7.7	9.3	8.8	7.3	10.7	6.2	8.0	9.1	7.7
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	2.5	4.9	3.3	2.4	2.4	2.6	2.5	3.0	2.7	3.2	2.3	2.5	1.9	1.9	1.6	1.9	1.4	<1	2.4	<1	2.3	<1	3.2	<1	2.8	2.2	2.2
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		8.7	13.2	29.2	19.3	14.4	12.4	10.7	11.0	13.65	15.7	17.3	15.0	15.5	9.9	10.7	9.5	12.1	8.4	8.4	11.1	9.3	11.1	7.3	13.9	6.2	10.8	11.3	9.9
Total Concentration of VOCs		8.7	13.2	30.9	19.3	14.4	12.4	10.7	11.0	13.65	15.7	17.3	15.0	15.5	9.9	10.7	9.5	12.1	8.4	8.4	11.1	9.3	11.1	7.3	13.9	6.2	10.8	11.3	9.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-4																						
		Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	Nov-94*	Feb-95*	Jun-95	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon 113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																								
Total Concentration of VOCs																								

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-4 (continued)																										
		Jun-98	Aug-98	Nov-98	Feb-99	Apr-99	Aug-99	Oct-99	Jan-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon 113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																											
Total Concentration of VOCs																											

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-5																							
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May-94*	Aug-94	Nov-94*	Feb-95*	Jun-95*	Sep-95	Nov-95	Feb-96	Feb-96	May-96	Jul-96	Nov-96	Mar-97	May-97	Aug-97	Nov-97	Jan-98	May-98*
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Naphthalene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<2.0	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Chloroform	100	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	1.9	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Freon 113	1200	<0.6	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons				1.9																					
Total Concentration of VOCs				1.9																					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-5 (continued)																									
		Aug-98	Oct-98	Jan-99	Apr-99	Aug-99	Nov-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Jul-02	Oct-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<400	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<400	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<400	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<600	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<400	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	1.9	7.3	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	5.4	<1	<1	<1	<1	<1	<1	<1	<1
Freon 113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																			7.3	7.3							
Total Concentration of VOCs																			7.3	7.3							

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-6																							
		Nov-92	Mar-93^	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Oct-94*	Dec-94*	Feb-95*	(D)†	May-95*	Aug-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	68.0	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	3.5	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5		<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons									71.5																
Total Concentration of VOCs									71.5																

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis
(D) = Duplicate sample

* = Analysis by BC Laboratories
† = Analysis by AEN
^ = Methyl Ethyl Ketone detected at 95.2µg/L

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-6 (continued)																								
		May-98*	Aug-98	Nov-98	Jan-99*	Apr-99	Aug-99	Oct-99	Jan-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Jul-02	Oct-02	Jan-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																										
Total Concentration of VOCs																										

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-7																									
		Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94*	May-94	May-94*	Sep-94	Dec-94*	Feb-95*	May-95*	Aug-95	Nov-95	Mar-96(G)	May-96	Jul-96	Dec-96	Feb-97	May-97	Sep-97	Dec-97	Feb-98	May-98
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1.0	<1	<2.0	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	0.70	2.1	0.84	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	1.1	1.0	1.3	0.63	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	6.9	<1	<1	1.0	1.0	<1	0.54	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	1.0	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	2.5	4.2	2.4	2.2	2.4	1.9	2.4	1.2	1.6	1.9	1.5	1.4	<1	2.2	1.5	2.2	1.5	1.0	1.0	<1	<1	1.6	1.2	1.4
1,1,1-Trichloroethane	200	<5	4.1	4.5	4.2	1.8	4.7	0.95	<1	<1.0	<1	1.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	21.2	11.2	11.2	19.7	15.5	19.2	14.0	8.9	12.0	11.2	8.7	6.5	6.5	2.1	12.4	7.0	4.8	6.3	8.4	6.2	5.7	4.8	7.3	4.7	4.5
Freon-113	1200	1.5	1.2	<1	3.8	1.4	<1	1.0	<1	<1.0	4.3	0.56	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A																									<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		29.6	19.0	19.9	32.2	23.9	27.6	19.0	11.3	13.2	17.1	13.36	10.1	8.74	2.1	14.6	8.5	7.0	7.8	9.4	7.2	5.7	4.8	8.9	5.9	5.9
Total Concentration of VOCs		29.6	19.0	19.9	32.2	23.9	27.6	19.0	11.3	13.2	17.1	13.36	10.1	8.74	2.1	14.6	8.5	7.0	7.8	9.4	7.2	5.7	4.8	8.9	5.9	5.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 14 Well

Constituent	MCL	MWP-7 (continued)																								
		Aug-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Mar-02	May-02	Sep-02	Oct-02	Jan-03	May-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	1.2	1.2	1.4	<1	1.2	1.5	1.2	1.1	<1	<1	<1	1.1	1.2	<1	<1	<1	<1	<1	1.8	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	4.5	6.6	4.7	2.9	6.6	7.3	6.0	3.5	4.0	2.2	2.4	2.3	2.7	2.6	1.7	1.6	2.4	2.5	1.3	2.0	1.1	1.9	1.5	<1	1.2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		5.7	8.9	6.1	2.9	7.8	8.8	7.2	4.6	4.0	2.2	2.4	3.4	3.9	2.6	1.7	1.6	2.4	2.5	3.1	2.0	1.1	1.9	1.5		1.2
Total Concentration of VOCs		5.7	8.9	6.1	2.9	7.8	8.8	7.2	4.6	4.0	2.2	2.4	3.4	3.9	2.6	1.7	1.6	2.4	2.5	3.1	2.0	1.1	1.9	1.5		1.2

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	MWP-8 Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Nov-94*	(D)*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97	Nov-97	Jan-98	May-98*
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<5	1.0	1.2	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons			1.0	1.2																						
Halogenated Non-Aromatic Hydrocarbons																										
Bromodichloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	1.0	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons				1.0																						
Total Concentration of VOCs			1.0	2.2																						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-1 (Cont'd)
Old Town Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 10 Well

Constituent	MCL	MWP-8 (Continued)																										
		Aug-98	Oct-98	Jan-99	Apr-99	Sep-99	Oct-99	Jan-00	Feb-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																												
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																												
Halogenated Non-Aromatic Hydrocarbons																												
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					10.0							
Total Concentration of VOCs																					10.0							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 6-2
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB5A-98-1												SB6-96-1			
		Apr-98	Mar-99	Oct-99	Apr-00	Mar-01	Sep-01	Mar-02	Sep-02*	Feb-03	Sep-03	Mar-04	Sep-04	Aug-96	Aug-96	Apr-98	Mar-99
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5			<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<1	<1	<1	<3	<3	<3	0.56	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane		<1	<1	<1	<1	<1	<10	<10	<0.5	<10	<10	<10	<10	<1	<1	<1	<1
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	4.2	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	35.3	58.7	46.0	51.1	53.6	67.9	36.2	54.0	30.5	37.5	24.8	32.7	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	2.3	1.2	1.2	1.2	1.9	1.2	<1	1.3	<1	<1	<1	1.7	<1	<1	<1	<1
Freon-113	1200	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1			<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		37.6	59.9	47.2	52.3	59.7	69.1	36.2	55.86	30.5	37.5	24.8	34.4				
Total Concentration of VOCs		37.6	59.9	47.2	52.3	59.7	69.1	36.2	55.86	30.5	37.5	24.8	34.4				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB6-96-1 (continued)					SB6-96-2								SB7-97-1	
Constituent	MCL	Oct-00	Oct-01	Sep-02*	Sep-03	Sep-04	Nov-96	Apr-98	Mar-99	Oct-00	Oct-01	Oct-02*	Sep-03	Sep-04	Nov-97	Dec-97
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chlorobenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5		<5	<5	<5	<5	<0.5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	1.1	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons												1.1				
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroethane		<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30
Chloroform	100	<3	<3	<0.5	<3	<3	<1	<1	<1	<3	<3	<0.5	<3	<3	16.8	6.5
Chloromethane		<1	<10	<0.5	<10	<10	<1	<1	<1	<1	<10	<0.5	<10	<10	<1	<1
2-Chlorotoluene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	0.58	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	1.3	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<1	1.1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	1.2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	7.1	3.5	2.4	<1	<1	<0.5	<1	<1	12.8	4.7
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-123A		<1	<1		<1	<1		<1	<1	<1	<1		<1	<1		
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons				0.58			8.3	4.6	2.4				1.5		30.9	11.2
Total Concentration of VOCs				0.58			8.3	4.6	2.4			1.1	1.5		30.9	11.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB7-97-1 (continued)										SB16-97-11			
		Mar-99	Oct-99	Mar-00	Apr-01	Oct-01	Mar-02	Sep-02*	Feb-03	Sep-03	Sep-04	Nov-97	Dec-97	Apr-00	May-01
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	2.6	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	1.3	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons							3.9								
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	1.8	<1	<0.5	<1	<1	<1	<1	1.1	6.1	1.6
Chloroethane		<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	5.2	12.5	<1	6.3	20.1	<3	6.6	3.2	31.0	29.1	11.9	1.3	<3	<3
Chloromethane		<1	<1	<1	<1	<1	<1	<0.5	<10	<10	<10	<1	<1	<1	<1
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	4.0	2.2	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	2.8	1.6	<1	<1	<0.5	<1	<1	<1	31.3	100.0	103.0	63.7
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	7.5	3.5	3.1	7.6	1.9	6.7	2.9	<1	<1	5.0	17.3	15.4	10.7
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1		<1	<1	<1			<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		5.2	20.0	6.3	11.0	29.5	1.9	13.3	6.1	31.0	29.1	48.2	123.7	126.7	76.0
Total Concentration of VOCs		5.2	20.0	6.3	11.0	29.5	5.8	13.3	6.1	31.0	29.1	48.2	123.7	126.7	76.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB16-97-11 (continued)			SB16-98-1										
		Mar-02	Mar-03	Mar-04	Mar-98	Dec-98*	Mar-99	Jun-99	Apr-00	Oct-00	May-01	Oct-01	Mar-02	Sep-02*	Mar-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroethane		<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	<3	<3	<3	8.2	17.0	11.7	12.4	10.1	15.8	11.3	15.1	8.2	12.0	6.4
Chloromethane		<1	<10	<10	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<0.5	<10
2-Chlorotoluene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	1.4	<1	<1	<0.5	<1	<1	<1	<1	<1	1.1	<1	0.67	<1
cis-1,2-Dichloroethene	6	<1	<1	4.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Tetrachloroethene	5	32.7	74.2	48.4	<1	<0.5	<1	1.7	1.1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	6.7	9.3	10.2	15.8	17.0	13.8	24.5	13.4	23.2	14.3	42.6	12.3	18.0	12.6
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-123A		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1		<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		39.4	84.9	63.1	24.0	34.0	25.5	38.6	24.6	39.0	25.6	58.8	20.5	30.67	19.0
Total Concentration of VOCs		39.4	84.9	63.1	24.0	34.0	25.5	38.6	24.6	39.0	25.6	58.8	20.5	30.67	19.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB16-98-1 (cont'd)			SB17-02-1						SB25A-96-3				
		Sep-03	Mar-04	Sep-04	Sep-02*	Nov-02	Mar-03	May-03	Mar-04	Sep-04	Oct-96	Dec-96	Dec-97	Apr-98	Mar-99
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	2.2	<5	<5	<5	<5	<5			<5	<5	<5
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons					2.2										
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	7.3	4.6	9.6	<0.5	<3	<3	<3	<3	<3	<1	<1	3.8	24.7	10.0
Chloromethane		<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
2-Chlorotoluene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	<1	<1	<1	3.6
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	13.4	9.2	13.6	<0.5	<1	<1	<1	<1	<1	45.8	31.5	2.4	2.9	11.9
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1		<1	<1	<1	<1	<1				<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		20.7	13.8	23.2							47.6	31.5	6.2	27.6	25.5
Total Concentration of VOCs		20.7	13.8	23.2	2.2						47.6	31.5	6.2	27.6	25.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB25A-96-3 (continued)											SB25A-02-1			
		Oct-99	Apr-00	Oct-00	Mar-01	Oct-01	Mar-02	Sep-02*	Feb-03	Aug-03	Mar-04	Aug-04	Oct-02*	Nov-02	Mar-03	May-03
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<0.5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<0.5	<30	<30	<30
Chloroform	100	9.5	9.0	11.4	4.6	3.8	<3	4.4	<3	3.2	<3	<3	<0.5	<3	<3	<3
Chloromethane		<1	<1	<1	<1	<10	<10	<0.5	<10	<10	<10	<10	<0.5	<10	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	1.5	4.3	1.3	10.0	6.0	8.2	6.3	4.7	6.4	11.1	7.3	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	0.92	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	2.0	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	6.8	3.1	8.3	6.0
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	18.4	14.6	15.7	34.8	32.0	36.5	29.0	22.3	28.8	39.4	28.3	<0.5	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		29.4	27.9	28.4	51.4	41.8	44.7	40.62	27.0	38.4	50.5	35.6	6.8	3.1	8.3	6.0
Total Concentration of VOCs		29.4	27.9	28.4	51.4	41.8	44.7	40.62	27.0	38.4	50.5	35.6	6.8	3.1	8.3	6.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB25A-02-1 (continued)						SB44-98-1								
		Sep-03	Dec-03*	Mar-04	May-04*	Jun-04	Sep-04	Apr-98	Mar-99	Oct-99	Apr-00	Oct-00	Mar-01	Sep-01	Mar-02	Oct-02*
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<2	<0.5	<2	<0.5	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<0.5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<0.5
Naphthalene		<2	<0.5	<2	<0.5	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<2	<1	<2	<1	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	1.3	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane		<30	<0.5	<30	<0.5	<30	<30	<150	<30	<30	<30	<30	<30	<30	<30	<0.5
Chloroform	100	<3	<0.5	<3	<0.5	<3	<3	<5	<1	1.4	<1	<3	<3	<3	<3	<0.5
Chloromethane		<10	<0.5	<10	<0.5	<10	<10	<5	<1	<1	<1	<1	<1	<10	<10	<0.5
2-Chlorotoluene		<2	<0.5	<2	<0.5	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<2	<0.5	<2	<0.5	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	2.9	<1	1.6
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloropropane	5	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<2	<0.5	<2	<0.5	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5
Tetrachloroethene	5	<1	<0.5	<1	0.57	<1	<1	<5	1.0	2.0	1.4	2.7	1.0	3.5	<1	2.6
1,1,1-Trichloroethane	200	7.4	2.7	<1	23.0	9.4	2.0	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<1	8.7	4.2	7.0	3.0	9.6	3.8	18.2	1.9	16.0
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<0.5
Freon-123A		<1		<1		<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons		7.4	2.7		23.57	10.7	2.0	8.7	5.2	10.4	4.4	12.3	4.8	24.6	1.9	20.2
Total Concentration of VOCs		7.4	2.7		23.57	10.7	2.0	8.7	5.2	10.4	4.4	12.3	4.8	24.6	1.9	20.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB44-98-1 (continued) Feb-03	Sep-03	Mar-04	Sep-04	SB52A-98-1 Apr-98	Mar-99	Oct-99	Apr-00	Oct-00	May-01	Oct-01	Mar-02	Oct-02*	Mar-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chlorobenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<0.5	<5
Naphthalene		<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<5	17.5	14.4	13.0	12.1	5.1	9.8	5.9	7.2	4.9
Chloroethane		<30	<30	<30	<30	<150	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	<3	<3	<3	<3	26.8	35.3	49.1	35.0	43.2	22.2	36.4	29.3	24.0	25.6
Chloromethane		<10	<10	<10	<10	<5	<1	<1	<1	<1	<1	<10	<10	<0.5	<10
2-Chlorotoluene		<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	20.9	52.0	45.6	39.9	55.0	33.7	51.1	55.2	30.0	44.3
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<5	1.1	1.9	1.7	1.4	1.0	1.5	1.6	1.8	1.4
1,2-Dichloropropane	5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
Tetrachloroethene	5	<1	<1	<1	1.9	8.1	39.9	22.5	24.8	34.5	14.4	24.4	23.0	28.0	25.9
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	2.8	19.7	2.7	15.2	36.0	114.0	142.0	79.0	114.5	66.0	103.8	102.1	77.0	81.0
Freon-113	1200	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-123A		<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1		<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		2.8	19.7	2.7	17.1	91.8	259.8	275.5	193.4	260.7	142.4	227.0	217.1	168.0	183.1
Total Concentration of VOCs		2.8	19.7	2.7	17.1	91.8	259.8	275.5	193.4	260.7	142.4	227.0	217.1	168.0	183.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB52A-98-1 (continued)			SB53-96-3										
		Sep-03	Mar-04	Sep-04	Jun-96	Jun-96	Aug-96	Nov-96	Apr-98	Dec-98	Mar-99	Jun-99	Oct-99	Nov-99	Mar-00
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
n-Butylbenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
sec-Butylbenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
ter-Butylbenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Chlorobenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Ethylbenzene	300	<1	<1	<1	<100	<2	<50	<1	<100	<10	<100	<10	<10	<100	<50
Isopropylbenzene		<2	<2	<2	<50	<1	<100	<2	<200	<20	<200	<20	<20	<200	<100
p-Isopropyltoluene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Methyl tert-Butyl Ether	13	<5	<5	<5					<500	<50	<100	<10	<10	<100	<50
Naphthalene		<2	<2	<2	<50	<1	<100	<2	<200	<20	<200	<20	<20	<200	<100
n-Propylbenzene		<1	<1	<1	<100	<2	<50	<1	<100	<10	<100	<10	<10	<100	<50
Toluene	150	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,2,4-Trimethylbenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,3,5-Trimethylbenzene		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Xylenes, total	1750	<2	<2	<2	<100	<2	<100	<2	<200	<20	<200	<20	<20	<200	<100
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Carbon Tetrachloride	0.5	7.3	3.0	5.8	<50	15.0	<50	37.9	<100	<10	<100	11.2	50.0	<100	<50
Chloroethane		<30	<30	<30	<1500	<30	<1500	<30	<3000	<300	<3000	<300	<300	<3000	<1500
Chloroform	100	21.6	11.0	14.7	<50	6.6	<50	6.2	<100	<10	<100	<10	<10	<100	<50
Chloromethane		<10	<10	<10	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
2-Chlorotoluene		<2	<2	<2	<100	<2	<100	<2	<200	<20	<200	<20	<20	<200	<100
1,1-Dichloroethane	5	<1	<1	<1	<50	4.4	<50	4.7	<100	<10	<100	<10	14.7	<100	<50
1,2-Dichloroethane	0.5	<2	<2	<2	<100	<2	<100	<2	<200	<20	<200	<20	<20	<200	<100
1,1-Dichloroethene	6	<1	<1	<1	<50	32.7	<50	51.5	<100	10.4	<100	24.4	77.8	<100	<50
cis-1,2-Dichloroethene	6	23.3	18.4	16.9	130.0	115.0	98.0	124.0	111.0	56.2	442.0	60.2	69.0	<100	205.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,2-Dichloropropane	5	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Methylene Chloride	5	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<100	<2	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,1,1,2-Tetrachloroethane		<2	<2	<2	<50	6.7	<100	<2	<200	<20	<200	<20	<20	<200	<100
Tetrachloroethene	5	21.7	20.1	15.9	3,290	3,780	2,230	5,130	1,970	1,200	11,400	1,680	3,830	1,940	1,430
1,1,1-Trichloroethane	200	<1	<1	<1	<50	16.5	<50	20.2	<100	<10	<100	<10	<10	<100	<50
1,1,2-Trichloroethane	5	<1	<1	<1	<50	2.9	<50	2.1	<100	<10	<100	<10	<10	<100	<50
Trichloroethene	5	62.3	39.4	46.5	465.0	436.0	312.0	883.0	306.0	178.0	1,820	419.0	1,340	562.0	276.0
Freon-113	1200	<1	<1	<1	<50	<1	<100	<2	<100	<10	<100	<10	<10	<100	<50
Freon-123A		<1	<1	<1					<100	<10	<100	<10	<10	<100	<50
Vinyl Chloride	0.5	<1	<1	<1	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Total Halogenated Hydrocarbons		136.2	91.9	99.8	3,885	4,416	2,640	6,260	2,387	1,445	13,662	2,195	5,382	2,502	1,911
Total Concentration of VOCs		136.2	91.9	99.8	3,885	4,416	2,640	6,260	2,387	1,445	13,662	2,195	5,382	2,502	1,911

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB53-96-3 (continued) Jun-00	Oct-00	Dec-00	Mar-01	Jun-01	Oct-01	(D)*	Dec-01	Mar-02	May-02	Sep-02*	Nov-02	Mar-03	(D)*	May-03	Aug-03
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
n-Butylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
sec-Butylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
ter-Butylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Chlorobenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Ethylbenzene	300	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Isopropylbenzene		<20	<20	<20	<200	<200	<200	<70	<200	<200	<200	<10	<200	<2	<30	<200	<200
p-Isopropyltoluene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Methyl tert-Butyl Ether	13	<10	<10	<10	<100	<100	<100	<70	<100	<100	<500	<10	<500	<5	<30	<500	<500
Naphthalene		<20	<20	<20	<200	<200	<200	<70	<200	<200	<200	<10	<200	<2	<30	<200	<200
n-Propylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Toluene	150	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
1,2,4-Trimethylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
1,3,5-Trimethylbenzene		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Xylenes, total	1750	<20	<20	<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<2	<50	<200	<200
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Carbon Tetrachloride	0.5	20.1	46.2	40.0	<100	<100	115.3	130.0	<100	<100	<100	97.0	<100	87.4	67.0	<100	<100
Chloroethane		<300	<300	<300	<3000	<3000	<3000	<70	<3000	<3000	<3000	<10	<3000	<30	<30	<3000	<3000
Chloroform	100	<10	<30	<30	<300	<300	<300	<70	<300	<300	<300	19.0	<300	8.1	<30	<300	<300
Chloromethane		<10	<10	<10	<100	<1000	<1000	<70	<1000	<1000	<1000	<10	<1000	<10	<30	<1000	<1000
2-Chlorotoluene		<20	<20	<20	<200	<200	<200	<70	<200	<200	<200	<10	<200	<2	<30	<200	<200
1,1-Dichloroethane	5	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	3.9	<30	<100	<100
1,2-Dichloroethane	0.5	<20	<20	<20	<200	<200	<200	<70	<200	<200	<200	<10	<200	<2	<30	<200	<200
1,1-Dichloroethene	6	28.8	35.7	35.0	<100	<100	<100	81.0	<100	<100	<100	98.0	<100	58.3	53.0	<100	<100
cis-1,2-Dichloroethene	6	190.0	251.7	1,025	272.1	429.9	245.5	280.0	135.2	<100	151.1	910.0	116.8	306.0	370.0	<100	<100
trans-1,2-Dichloroethene	10	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
1,2-Dichloropropane	5	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	7.2	<30	<100	<100
Methylene Chloride	5	<10	<10	<10	<100	<100	<100	87.0†	<100	<100	<100	<20	<100	<1	<50	<100	<100
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
1,1,1,2-Tetrachloroethane		<20	<20	<20	<200	<200	<200	<70	<200	<200	<200	<10	<200	15.1	<30	<200	<200
Tetrachloroethene	5	2,690	3,895	3,034	2,141	7,140	8,519	11,000	2,158	3,186	7,969	8,600	7,422	5,980	6,000	4,280	4,430
1,1,1-Trichloroethane	200	<10	<10	20.0	<100	<100	<100	<70	<100	<100	<100	<10	<100	1.7	<30	<100	<100
1,1,2-Trichloroethane	5	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Trichloroethene	5	612.0	940.3	740.0	619.8	1,686	2,576	2,700	606.6	969.9	2,411	3,400	2,724	1,760	1,700	1,010	1,420
Freon-113	1200	<10	<10	<10	<100	<100	<100	<70	<100	<100	<100	<10	<100	<1	<30	<100	<100
Freon-123A		<10	<10	<10	<100	<100	<100		<100	<100	<100		<100	<1		<100	<100
Vinyl Chloride	0.5	<10	<10	<10	<100	<100	395.0	800.0	116.8**	<100	134.2	220.0	<100	13.4	<30	<100	<100
Total Halogenated Hydrocarbons		3,541	5,169	4,894	3,033	9,256	11,851	15,078	3,016	4,156	10,666	13,344	10,262	8,241.1	8,190	5,290	5,850
Total Concentration of VOCs		3,541	5,169	4,894	3,033	9,256	11,851	15,078	3,016	4,156	10,666	13,344	10,262	8,241.1	8,190	5,290	5,850

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
†-Compound detected in method blank at 0.86ug/L

**Estimated value

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB53-96-3 (continued)				SB58-01-02										
Constituent	MCL	Dec-03	Mar-04	May-04*	Sep-04	Aug-96	Aug-96	Nov-96	Dec-98	Jun-99	Mar-00	Oct-00	Mar-01	Oct-01	Mar-02	Sep-02
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<200	<200	<20	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<500	<500	<20	<250				<50	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<200	<200	<20	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<200	<200	<30	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<3000	<3000	<20	<1500	<30	<30	<30	<300	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<300	<300	<20	<150	<1	<1	<1	<10	<1	<1	<3	<3	<3	<3	<3
Chloromethane		<1000	<1000	<20	<500	<1	<1	<1	<10	<1	<1	<1	<1	<10	<10	<10
2-Chlorotoluene		<200	<200	<20	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<100	<100	<20	<50	<1	<1	2.2	<10	7.6	9.8	9.2	11.5	9.2	8.0	7.0
1,2-Dichloroethane	0.5	<200	<200	<20	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<100	<100	25.0	<50	<1	<1	5.6	17.9	18.4	22.0	21.3	29.1	23.6	22.2	22.0
cis-1,2-Dichloroethene	6	<100	<100	91.0	<50	<1	<1	1.9	<10	9.2	9.2	7.0	8.2	8.3	8.8	8.9
trans-1,2-Dichloroethene	10	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<100	<100	48.0	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<200	<200	<20	<100	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	3,570	2,510	1,900	1,200	<1	<1	<1	20.6	32.3	31.2	23.3	28.8	26.3	29.1	28.2
1,1,1-Trichloroethane	200	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	816.0	561.0	530.0	261.0	<1	1.2	12.0	40.3	48.7	45.1	44.6	53.6	50.6	47.6	43.6
Freon-113	1200	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<100	<100		<50				<10	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<100	<100	<20	<50	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		4,386	3,071	2,594	1,461		1.2	21.7	78.8	116.2	117.3	105.4	131.2	118.0	115.7	109.7
Total Concentration of VOCs		4,386	3,071	2,594	1,461		1.2	21.7	78.8	116.2	117.3	105.4	131.2	118.0	115.7	109.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

		SB58-01-02 (continued)				SB58-95-1								SB58-95-2		
Constituent	MCL	Mar-03	Sep-03	Mar-04	Aug-04	Jun-95*	(D)	Jun-99	Sep-00	Sep-01	Sep-02	Sep-03	Aug-04	Jun-95	(D)*	Sep-95
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5			<5	<5	<5	<5	<5	<5			
Naphthalene		<2	<2	<2	<2	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	7.4	3.2	1.5
Chloroethane		<30	<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
Chloroform	100	<3	<3	<3	<3	<0.5	<1	<1	<3	<3	<3	<3	<3	<1	1.3	<1
Chloromethane		<10	<10	<10	<10	<0.5	<5	<1	<1	<10	<10	<10	<10	<5	<0.5	<5
2-Chlorotoluene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<1	<0.5	<1
1,1-Dichloroethane	5	6.5	8.4	7.8	7.7	1.2	4.7	<1	<1	1.2	<1	<1	1.8	14.5	11.0	10.8
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	17.5	24.3	20.3	22.0	4.7	7.0	<1	<1	<1	<1	<1	<1	43.0	41.0	44.5
cis-1,2-Dichloroethene	6	9.0	11.1	9.6	9.0	2.3	6.1	1.4	<1	1.1	<1	<1	<1	10.3	7.8	9.3
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	4.2	<1	<1	<1	<1	<1	<1	4.1	<0.5	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<0.5	<1	<2	<2	<2	<2	<2	<2	<1	<0.5	<1
Tetrachloroethene	5	24.0	36.2	27.3	24.7	5.2	7.2	2.8	2.2	2.2	<1	<1	<1	48.4	37.0	38.2
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	4.0	1.4	1.6
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	2.3	<0.5	<1
Trichloroethene	5	38.4	46.2	40.5	35.3	20.0	26.6	5.4	5.9	5.1	2.9	1.9	<1	74.9	56.0	52.9
Freon-113	1200	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<1	<1	<5	<0.5	<5
Freon-123A		<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	4.7	2.7
Total Halogenated Hydrocarbons		95.4	126.2	105.5	98.7	34.60	55.8	9.6	8.1	9.6	2.9	1.9	1.8	208.9	163.40	161.5
Total Concentration of VOCs		95.4	126.2	105.5	98.7	34.60	55.8	9.6	8.1	9.6	2.9	1.9	1.8	208.9	163.40	161.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-95-2 (continued)														SB58-96-1	
		Dec-95	Jun-99	Oct-99	Mar-00	Jun-00	Oct-00	Mar-01	Sep-01	Mar-02	Sep-02	Mar-03	Sep-03	Mar-04	Aug-04	Jul-96	Aug-96
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13		<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Naphthalene		<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1
n-Propylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	1.4	<1	<2	1.2	<1	<1	1.3	<1	1.1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<60	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<1	<1	<2	<1	<3	<3	3.0	<3	<3	<3	<3	<3	<3	<3	<1	<1
Chloromethane		<1	<1	<2	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<1	<1
2-Chlorotoluene		<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	10.0	4.0	4.6	4.5	4.7	5.1	8.1	7.1	8.2	7.3	8.5	8.4	7.9	8.6	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	46.5	12.6	13.6	12.2	15.4	14.7	21.6	21.7	23.3	18.1	14.6	17.3	14.6	19.9	<1	<1
cis-1,2-Dichloroethene	6	9.0	6.3	4.6	6.9	6.6	6.3	6.9	7.4	7.0	4.7	5.9	6.2	5.7	5.9	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	50.4	29.7	21.0	29.3	35.9	36.1	45.9	54.5	54.7	45.8	35.6	43.5	28.2	24.0	<1	1.0
1,1,1-Trichloroethane	200	1.7	1.2	<2	1.6	1.9	1.7	2.4	2.2	2.4	2.1	1.6	1.4	1.2	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	58.1	22.9	26.9	20.4	27.5	25.5	32.2	34.6	36.2	31.5	24.5	27.7	27.9	21.8	1.1	1.7
Freon-113	1200	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Vinyl Chloride	0.5	3.2	1.8	<2	2.4	1.9	1.7	3.3	2.5	3.0	1.6	3.1	2.9	2.2	1.9	<1	<1
Total Halogenated Hydrocarbons		180.3	78.5	70.7	78.5	93.9	91.1	124.7	130.0	135.9	111.1	93.8	107.4	87.7	82.1	1.1	2.7
Total Concentration of VOCs		180.3	78.5	70.7	78.5	93.9	91.1	124.7	130.0	135.9	111.1	93.8	107.4	87.7	82.1	1.1	2.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-96-1 (continued) Nov-96	Apr-98	Mar-99	Jun-99	Oct-99	Mar-00	Jun-00	Oct-00	Mar-01	Sep-01	Mar-02	Sep-02	Mar-03	Aug-03	Mar-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
n-Butylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
sec-Butylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
ter-Butylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Chlorobenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Ethylbenzene	300	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Isopropylbenzene		<2	<2	<20	<20	<100	<20	<20	<20	<2	<20	<20	<2	<2	<20	<2	<20
p-Isopropyltoluene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Methyl tert-Butyl Ether	13		<5	<50	<50	<250	<50	<50	<50	<5	<50	<50	<5	<5	<50	<5	<50
Naphthalene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<2	<2	<10	<2	<20
n-Propylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Toluene	150	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
1,2,4-Trimethylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
1,3,5-Trimethylbenzene		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Xylenes, total	1750	<2	<2	<20	<20	<100	<20	<20	<20	<2	<20	<20	<2	<2	<20	<2	<20
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Carbon Tetrachloride	0.5	<1	3.3	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Chloroethane		<30	<30	<300	<300	<1500	<300	<300	<300	<30	<300	<300	<30	<30	<300	<30	<300
Chloroform	100	<1	15.6	<10	<10	<50	<30	<10	<30	<3	<30	<30	<3	<3	<30	<3	<30
Chloromethane		<1	<1	<10	<10	<50	<10	<10	<10	<1	<100	<100	<10	<10	<100	<10	<100
2-Chlorotoluene		<2	<2	<20	<20	<100	<20	<20	<20	<2	<20	<20	<2	<2	<20	<2	<20
1,1-Dichloroethane	5	<1	2.3	<10	<10	<50	<10	<10	<10	2.3	<10	<10	1.2	<1	<10	<1	<10
1,2-Dichloroethane	0.5	<2	<2	<20	<20	<100	<20	<20	<20	<2	<20	<20	<2	<2	<20	<2	<20
1,1-Dichloroethene	6	<1	4.2	<10	<10	<50	<10	<10	<10	2.8	<10	<10	2.0	1.1	<10	<1	<10
cis-1,2-Dichloroethene	6	1.3	131.0	98.4	142.0	78.5	105.0	94.1	105.3	187.7	380.7	119.4	570.0	145.0	215.0	67.6	78.5
trans-1,2-Dichloroethene	10	<1	<1	<10	<10	<50	<10	<10	<10	1.3	<10	<10	1.2	<1	<10	<1	<10
1,2-Dichloropropane	5	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	1.2	<10	<1	<10
Methylene Chloride	5	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
1,1,1,2-Tetrachloroethane		<2	<2	<20	<20	<100	<20	<20	<20	<2	<20	<20	<2	<2	<20	<2	<20
Tetrachloroethene	5	2.0	538.0	481.0	547.0	214.0	272.0	429.0	176.6	343.2	120.2	114.5	31.4	154.0	290.0	95.1	199.0
1,1,1-Trichloroethane	200	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
1,1,2-Trichloroethane	5	<1	1.9	<10	<10	<50	<10	<10	<10	1.5	<10	<10	<1	<1	<10	<1	<10
Trichloroethene	5	4.3	872.0	782.0	936.0	690.0	254.0	276.0	352.0	832.0	466.3	405.8	336.0	388.0	738.0	157.0#	164.0
Freon-113	1200	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Freon-123A			<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Vinyl Chloride	0.5	<1	<1	<10	<10	<50	<10	<10	<10	<1	<10	<10	<1	<1	<10	<1	<10
Total Halogenated Hydrocarbons		7.6	1,568.3	1,361.4	1,625	982.5	631.0	799.1	633.9	1,370.8	967.2	639.7	941.8	689.3	1,243.0	319.7	441.5
Total Concentration of VOCs		7.6	1,568.3	1,361.4	1,625	982.5	631.0	799.1	633.9	1,370.8	967.2	639.7	941.8	689.3	1,243.0	319.7	441.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Result is above calibration curve

(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-96-2 Aug-96	Nov-96	Apr-98	Dec-98	Mar-99	Jun-99	Oct-99	Oct-99	Nov-99	*(D)	Mar-00	May-00	Oct-00	Dec-00	*(D)	Mar-01	Jun-01	Sep-01
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
n-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
sec-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
ter-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Chlorobenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Ethylbenzene	300	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Isopropylbenzene		<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100	<100	<20	<20	<200	<200	<200	<200
p-Isopropyltoluene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Methyl tert-Butyl Ether	13			<50	<50	<50	<5	<250	<500	<500	<0.5	<250	<250	<50	<50	<200	<500	<500	<500
Naphthalene		<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100	<100	<20	<20	<200	<200	<200	<200
n-Propylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Toluene	150	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
1,2,4-Trimethylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
1,3,5-Trimethylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Xylenes, total	1750	<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100	<100	<20	<20	<300	<200	<200	<200
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Bromodichloromethane		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Carbon Tetrachloride	0.5	3.3	<1	33.9	<10	25.6	20.0	<50	<100	<100	19.0	<50	<50	32.5	38.3	<200	<100	<100	<100
Chloroethane		<30	<30	<300	<300	<300	<30	<1500	<3000	<3000	<0.5	<1500	<1500	<300	<300	<200	<3000	<3000	<3000
Chloroform	100	1.9	1.5	14.9	<10	<10	4.2	<50	<100	<100	5.7	<50	<50	<30	<30	<200	<300	<300	<300
Chloromethane		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<1000	<1000
2-Chlorotoluene		<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100	<100	<20	<20	<200	<200	<200	<200
1,1-Dichloroethane	5	6.3	8.8	23.2	<10	15.4	16.1	<50	<100	<100	21.0	<50	<50	18.2	19.4	<200	<100	<100	<100
1,2-Dichloroethane	0.5	<2	<2	<20	<20	<20	<2	<100	<200	<200	0.78	<100	<100	<20	<20	<200	<200	<200	<200
1,1-Dichloroethene	6	10.7	31.2	111.0	31.5	72.5	71.5	61.2	<100	<100	73.0	83.8	72.4	72.6	62.4	<200	<100	<100	<100
cis-1,2-Dichloroethene	6	24.8	27.3	128.0	32.4	108.0	103.0	70.2	<100	<100	100.0	155.0	145.0	99.5	94.0	<200	<100	<100	<100
trans-1,2-Dichloroethene	10	<1	<1	<10	<10	<10	1.1	<50	<100	<100	1.9	<50	<50	<10	<10	<200	<100	<100	<100
1,2-Dichloropropane	5	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Methylene Chloride	5	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<300	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
1,1,1,2-Tetrachloroethane		<2	<2	<20	<20	<20	<2	<100	<200	<200	4.7	<100	<100	<20	<20	<200	<200	<200	<200
Tetrachloroethene	5	525.0	320.0	3,650	503.0	4560	3150	2,570	2,790	2,340	2,400	3,440	3,140	2,451	3,189	2,900	3,067	2,242	2,082
1,1,1-Trichloroethane	200	1.8	<1	<10	<10	<10	<1	<50	<100	<100	3.7	<50	<50	<10	<10	<200	<100	<100	<100
1,1,2-Trichloroethane	5	1.3	<1	<10	<10	<10	<1	<50	<100	<100	3.8	<50	<50	<10	<10	<200	<100	<100	<100
Trichloroethene	5	173.0	187.0	1,350	251.0	1200	885.0	1,020	1,040	863.0	860.0	1,090	1,180	1,181	1,164	1,500	1,347	1,043	1,097
Freon-113	1200	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50	<50	<10	<10	<200	<100	<100	<100
Freon-123A				<10	<10	<10	<1	<50	<100	<100		<50	<50	<10	<10		<100	<100	<100
Vinyl Chloride	0.5	<1	<1	<10	<10	<10	<1	<50	<100	<100	0.97	<50	<50	<10	<10	<200	<100	<100	<100
Total Halogenated Hydrocarbons		748.1	575.8	5,311	817.9	5981.5	4,250.9	3,721	3,830	3,203	3,494.6	4,769	4,537	3,854	4,567	4,400	4,414	3,286	3,179
Total Concentration of VOCs		748.1	575.8	5,311	817.9	5981.5	4,250.9	3,721	3,830	3,203	3,494.6	4,769	4,537	3,854	4,567	4,400	4,414	3,286	3,179

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-96-2 (continued)												SB58-97-1			
		Dec-01	Mar-02	Jun-02	Sep-02	Nov-02	Mar-03	May-03	Aug-03	Dec-03	Mar-04	May-04*	Aug-04	Nov-97	Nov-97	Apr-98	Jun-99
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
n-Butylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
sec-Butylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
ter-Butylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Chlorobenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Ethylbenzene	300	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Isopropylbenzene		<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<5	<20	<10	<2	<20	<200
p-Isopropyltoluene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Methyl tert-Butyl Ether	13	<500	<500	<500	<50	<500	<5	<50	<50	<250	<50	<5	<50	<25	<5	<50	<500
Naphthalene		<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<5	<20	<10	<2	<20	<200
n-Propylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Toluene	150	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
1,2,4-Trimethylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
1,3,5-Trimethylbenzene		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Xylenes, total	1750	<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<10	<20	<10	<2	<20	<200
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Carbon Tetrachloride	0.5	<100	<100	<100	17.7	<100	8.1	<10	<10	<50	<10	<5	<10	9.3	10.7	607.0	<100
Chloroethane		<3000	<3000	<3000	<300	<3000	<30	<300	<300	<1500	<300	<5	<300	<150	<30	<300	<3000
Chloroform	100	<300	<300	<300	<30	<300	<3	<30	<30	<150	<30	<5	<30	9.0	10.3	77.1	<100
Chloromethane		<1000	<1000	<1000	<100	<1000	<10	<100	<100	<500	<100	<5	<100	<5	<1	<10	<100
2-Chlorotoluene		<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<5	<20	<10	<2	<20	<200
1,1-Dichloroethane	5	<100	<100	<100	<10	<100	3.4	<10	<10	<50	<10	<5	<10	<5	1.8	16.3	<100
1,2-Dichloroethane	0.5	<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<5	<20	<10	<2	<20	<200
1,1-Dichloroethene	6	<100	<100	<100	23.9	<100	12.2	10.6	<10	<50	<10	9.8	<10	<5	3.0	107.0	<100
cis-1,2-Dichloroethene	6	108.4	<100	<100	29.9	<100	27.9	28.3	43.1	<50	24.5	22.0	25.4	58.8	53.8	587.0	199.0
trans-1,2-Dichloroethene	10	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
1,2-Dichloropropane	5	<100	<100	<100	<10	<100	1.2	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Methylene Chloride	5	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	45.0	<10	<5	<1	<10	<100
1,1,2,2-Tetrachloroethane	1	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
1,1,1,2-Tetrachloroethane		<200	<200	<200	<20	<200	<2	<20	<20	<100	<20	<5	<20	<10	<2	30.1	<200
Tetrachloroethene	5	2,475	2,218	1,599	1,099	331.5	679.0	879.0	1,460	844.0	722.0	510.0	628.0	377.0	446.0	12,500	3,220
1,1,1-Trichloroethane	200	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	237.0
1,1,2-Trichloroethane	5	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Trichloroethene	5	1,168	1,181	877.7	539.9	210.3	337.0	391.0	501.0	311.0	312.0	230.0	281.0	861.0	890.0	19,200	3,360
Freon-113	1200	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Freon-123A		<100	<100	<100	<10	<100	<1	<10	<10	<50	<10		<10			<10	<100
Vinyl Chloride	0.5	<100	<100	<100	<10	<100	<1	<10	<10	<50	<10	<5	<10	<5	<1	<10	<100
Total Halogenated Hydrocarbons		3,751	3,399	2,476.3	1,710.2	541.8	1,068.8	1,308.9	2,004.1	1,155.0	1,058.5	816.8	934.4	1,315	1,415.6	33,124.5	7,016
Total Concentration of VOCs		3,751	3,399	2,476.3	1,710.2	541.8	1,068.8	1,308.9	2,004.1	1,155.0	1,058.5	816.8	934.4	1,315	1,415.6	33,124.5	7,016

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

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(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-97-1 (continued) Mar-00	Jun-00	Oct-00	Dec-00	(D)*	May-01	Jun-01	Sep-01	Mar-02	Jun-02	Oct-02*	Nov-02	Mar-03	May-03	Aug-03
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
n-Butylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Chlorobenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Isopropylbenzene		<100	<20	<20	<20	<7	<20	<20	<20	<2	<20	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<250	<50	<50	<50	<7	<50	<50	<50	<5	<50	<0.5	<5	<5	<5	<5
Naphthalene		<100	<20	<20	<20	<7	<20	<20	<20	<2	<20	<0.5	<2	<2	<2	<2
n-Propylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Toluene	150	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<100	<20	<20	<20	<20	<20	<20	<20	<2	<20	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	4.9	<1
Chloroethane		<1500	<300	<300	<300	<7	<300	<300	<300	<30	<300	<0.5	<30	<30	<30	<30
Chloroform	100	<50	<10	<30	<30	<7	<30	<30	<30	<3	<30	<0.5	<3	<3	<3	<3
Chloromethane		<50	<10	<10	<10	<7	<10	<100	<100	<10	<100	<0.5	<10	<10	<10	<10
2-Chlorotoluene		<100	<20	<20	<20	<7	<20	<20	<20	<2	<20	<0.5	<2	<2	<2	<2
1,1-Dichloroethane	5	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<100	<20	<20	<20	<7	<20	<20	<20	<2	<20	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	4.1	<1
cis-1,2-Dichloroethene	6	161.0	94.0	116.2	<10	7.3	25.2	19.6	34.1	47.6	27.3	47.0	12.8	30.3	31.5	37.2
trans-1,2-Dichloroethene	10	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,2-Dichloropropane	5	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<50	<10	<10	<10	<20	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<100	<20	<20	<20	<7	<20	<20	<20	<2	<20	<0.5	<2	<2	<2	<2
Tetrachloroethene	5	826.0	690.0	949.2	103.0	79.0	209.4	278.4	282.6	161.3	179.4	28.0	3.3	52.3	1,260	1,490
1,1,1-Trichloroethane	200	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Trichloroethene	5	449.0	764.0	1,185.1	55.0	60.0	209.8	289.6	466.8	102.5	106.2	37.0	8.3	48.3	221.0	248.0
Freon-113	1200	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	<1	<1	<1	<1
Freon-123A		<50	<10	<10	<10		<10	<10	<10	<1	<10		<1	<1	<1	<1
Vinyl Chloride	0.5	<50	<10	<10	<10	<7	<10	<10	<10	<1	<10	<0.5	75.0	<1	<1	<1
Total Halogenated Hydrocarbons		1,436	1,548.0	2,250.5	158.0	146.3	444.4	587.6	783.5	311.4	312.9	112.0	99.4	130.9	1,521.5	1,775.2
Total Concentration of VOCs		1,436	1,548.0	2,250.5	158.0	146.3	444.4	587.6	783.5	311.4	312.9	112.0	99.4	130.9	1,521.5	1,775.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-97-1 (continued)				SB58-97-2				SB58-98-1							
		Dec-03	Mar-04	May-04*	Aug-04	Aug-03	Dec-03*	May-04*	Sep-04	Mar-98	Jan-99	Mar-99	Oct-99	Apr-00	Apr-01	Oct-01	Mar-02
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<2	<0.5	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<50	<5	<0.5	<5	<5	<0.5	<0.5	<5	35.4	2.2	<5	<5	<5	<5	63.8#	<5
Naphthalene		<20	<2	<0.5	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	2.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	1.3	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<2	<1	<2	<2	<1	<1	<2	5.0	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons										44.2	2.2					63.8	
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<300	<30	<0.5	<30	<30	<0.5	<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<30	<3	<0.5	<3	<3	<0.5	<0.5	<3	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane		<100	<10	<0.5	<10	<10	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<10	<10
2-Chlorotoluene		<20	<2	<0.5	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	<10	<1	<0.5	<1	<1	1.3	0.74	<1	9.4	2.7	2.1	2.8	1.6	3.0	1.2	1.6
1,2-Dichloroethane	0.5	<20	<2	<0.5	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<10	<1	<0.5	<1	<1	<0.5	0.84	<1	42.8	7.6	6.3	7.5	5.6	8.2	3.1	4.6
cis-1,2-Dichloroethene	6	54.4	11.4	10.0	18.5	26.7	30.0	76.0	60.7	7.2	2.7	2.8	2.5	3.8	3.3	2.1	2.8
trans-1,2-Dichloroethene	10	<10	<1	<0.5	<1	<1	<0.5	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<2	<0.5	<2	<2	<0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	140.0	34.5	49.0	23.5	<1	1.1#	0.62	<1	21.8	1.6	2.7	2.9	6.7	<1	<1	2.0
1,1,1-Trichloroethane	200	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	99.9	12.9	11.0	22.3	13.4	8.9	8.1	4.2	59.2	7.1	7.7	7.5	11.2	9.6	2.7	7.2
Freon-113	1200	<10	<1	<0.5	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<10	<1		<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<1	<0.5	<1	<1	<0.5	6.3	2.8	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		294.3	58.8	70.0	64.3	40.1	41.3	93.8	67.7	140.4	21.7	21.6	23.2	28.9	24.1	9.1	18.2
Total Concentration of VOCs		294.3	58.8	70.0	64.3	40.1	41.3	93.8	67.7	184.6	23.9	21.6	23.2	28.9	24.1	72.9	18.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Detected in CCB above PQL

#-Not confirmed on re-analysis after holding time
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-98-1 (continued)			SB58-98-6											
		Oct-02*	Sep-03	Sep-04	May-98	Dec-98	Mar-99	Jun-99	Oct-99	Nov-99	Mar-00	Jun-00	Dec-00	Apr-01	Oct-01	Dec-01
Aromatic or Non-Halogenated Hydrocarbons																
Benzene	1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11.6	<5	18.8
Naphthalene		<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons									1.3					11.6		18.8
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<0.5	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	<0.5	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane		<0.5	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
2-Chlorotoluene		<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	5	1.3	3.8	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	3.0	9.7	4.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	2.5	16.6	7.2	11.4	2.5	2.5	3.9	1.2	1.3	2.8	3.3	1.3	2.4	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	0.96	<1	<1	<1	<1	<1	<1	<1	1.0	1.9	2.6	3.3	11.2	1.9	1.7
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	4.2	7.2	2.1	1.4	<1	<1	<1	<1	<1	<1	1.3	1.2	1.5	1.2	<1
Freon-113	1200	<0.5	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		11.96	37.3	15.9	12.8	2.5	2.5	3.9	1.2	2.3	4.7	7.2	5.8	15.1	3.1	1.7
Total Concentration of VOCs		11.96	37.3	15.9	12.8	2.5	2.5	3.9	2.5	2.3	4.7	7.2	5.8	26.7	3.1	20.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-98-6 (continued)			SB58-98-7									
		Mar-02	May-02	Sep-04	Jun-98	Oct-99	Apr-00	Sep-00	May-01	Oct-01	Mar-02	Oct-02*	Sep-03	Sep-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<3	<3	<3	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3
Chloromethane		<10	<10	<10	<1	<1	<1	<1	<1	<10	<10	<0.5	<10	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	1.1	<1	<1	2.8	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	3.8	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	10.0	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		5.1			2.8								13.8	
Total Concentration of VOCs		5.1			2.8								13.8	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-02-1										SB58-02-2			
		Jun-02	Sep-02	Nov-02	Mar-03	May-03	Sep-03	Dec-03*	Mar-04	May-04*	Aug-04	Jun-02	Sep-02	Nov-02	Mar-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<200	<20	<20	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<0.5	<5	<0.5	<5	<500	<50	<50	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<200	<20	<20	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<2	<1	<2	<200	<20	<20	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<1	<1	<1	1.0	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	0.57	<1	0.58	<1	<100	<10	<10	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<0.5	<30	<0.5	<30	<3000	<300	<300	<30
Chloroform	100	<3	<3	<3	<3	<3	<3	1.6	<3	1.5	<3	<300	<30	<30	<3
Chloromethane		<10	<10	<10	<10	<10	<10	<0.5	<10	<0.5	<10	<1000	<100	<100	<10
2-Chlorotoluene		<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<200	<20	<20	<2
1,1-Dichloroethane	5	25.5	36.6	44.6	29.8	34.3	40.1	27.0	27.6	25.0	27.8	<100	19.2	18.5	19.8
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	0.60	<2	0.52	<2	<200	<20	<20	<2
1,1-Dichloroethene	6	53.9	133.6	127.2	97.8	105.0	139.0	85.0	104.0	93.0	110.0	<100	29.5	21.0	29.2
cis-1,2-Dichloroethene	6	8.6	14.4	14.9	13.3	15.9	20.1	14.0	13.2	16.0	16.4	<100	21.6	16.5	24.3
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	0.70	<1	0.77	<1	<100	<10	<10	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<100	<10	<10	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<200	<20	<20	<2
Tetrachloroethene	5	30.7	150.2	152.9	89.0	163.0	192.0	130.0	127.0	100.0	122.0	690.9	555.5	300.4	230.0
1,1,1-Trichloroethane	200	1.4	<1	<1	<1	1.1	<1	1.1	<1	1.5	1.5	<100	<10	<10	<1
1,1,2-Trichloroethane	5	1.3	2.1	1.6	<1	<1	2.7	1.8	<1	1.9	<1	<100	<10	<10	<1
Trichloroethene	5	44.6	144.2	110.9	92.9	132.0	171.0	110.0	107.0	86.0	105.0	363.9	287.8	184.8	151.0
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<100	<10	<10	<1
Freon-123A		<1	<1	<1	<1	<1	<1		<1		<1	<100	<10	<10	<1
Vinyl Chloride	0.5	2.5	<1	<1	<1	1.4	<1	1.4	<1	1.6	<1	<100	<10	<10	<1
Total Halogenated Hydrocarbons		168.5	481.1	452.1	323.8	452.7	564.9	373.77	378.8	328.37	382.7	6,322.1	913.6	541.2	454.3
Total Concentration of VOCs		168.5	481.1	452.1	323.8	452.7	564.9	373.77	378.8	328.37	382.7	6,322.1	913.6	541.2	454.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-2 (Cont'd)
Old Town Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-02-2 (continued) May-03	Sep-03	Dec-03*	Mar-04	May-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons							
Benzene	1	<1	<1	<0.5	<1	<0.5	<1
n-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1
Chlorobenzene		<1	<1	<0.5	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<0.5	<1
Isopropylbenzene		<2	<2	<0.5	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<0.5	<5
Naphthalene		<2	<2	<0.5	<2	<0.5	<2
n-Propylbenzene		<1	<1	<0.5	<1	<0.5	<1
Toluene	150	<1	<1	<0.5	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<1	<2	<1	<2
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<1	<1	<0.5	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<0.5	<1
Chloroethane		<30	<30	<0.5	<30	<0.5	<30
Chloroform	100	<3	<3	0.96	<3	1.0	<3
Chloromethane		<10	<10	<0.5	<10	<0.5	<10
2-Chlorotoluene		<2	<2	<0.5	<2	<0.5	<2
1,1-Dichloroethane	5	15.7	18.4	17.0	16.2	16.0	16.7
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<0.5	<2
1,1-Dichloroethene	6	22.6	30.4	31.0	26.6	27.0	31.4
cis-1,2-Dichloroethene	6	16.5	20.3	16.0	15.2	17.0	17.1
trans-1,2-Dichloroethene	10	<1	<1	0.50	<1	<0.5	<1
1,2-Dichloropropane	5	<1	<1	<0.5	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<0.5	<1	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<0.5	<2	<0.5	<2
Tetrachloroethene	5	184.0	212.0	120.0	111.0	89.0	105.0
1,1,1-Trichloroethane	200	<1	<1	1.1	<1	0.71	<1
1,1,2-Trichloroethane	5	<1	<1	0.88	<1	1.0	<1
Trichloroethene	5	110.0	129.0	97.0	85.0	97.0	86.4
Freon-113	1200	<1	<1	<0.5	<1	<0.5	<1
Freon-123A		<1	<1		<1		<1
Vinyl Chloride	0.5	<1	<1	1.0	<1	<0.5	<1
Total Halogenated Hydrocarbons		348.8	410.1	285.44	254.0	248.71	256.6
Total Concentration of VOCs		348.8	410.1	285.44	254.0	248.71	256.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

<	= Less than Quantitation Limit
	= Compound not included in analysis

Table 6-3
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-96-1													
		13-Oct-03	4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	<20	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Bromoform		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
Carbon Tetrachloride	0.5	29.1	16.0	34.9	29.4	11.7	15.4	30.9	<10	19.3	5.9	<10	12.4	12.1	10.4
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<5	<100	<100	<100	<100
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<30	<30	<5	<30	<30	<30	<30
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
Tetrachloroethene	5	1,640	1,390	2,700	2,350	1,090	1,450	2,240	802.0	1,370	740.0	442.0	1,050	1,080	936.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Trichloroethene	5	135.0	90.7	261.0	272.0	78.9	132.0	248.0	102.0	96.5	73.0	61.7	62.4	67.1	54.2
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Total Halogenated Hydrocarbons		1,804.1	1,496.7	2,995.9	2,651.4	1,180.6	1,597.4	2,518.9	904.0	1,485.8	818.9	503.7	1,124.8	1,159.2	1,000.6
Total Concentration of VOCs		1,804.1	1,496.7	2,995.9	2,651.4	1,180.6	1,597.4	2,518.9	904.0	1,485.8	818.9	503.7	1,124.8	1,159.2	1,000.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-96-1 (continued)									EW7-96-2				
		18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	13-Oct-03	4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5	<5	<5	<5	<5
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Bromoform		<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	16.3	<10	<10	<10	<10	10.9	<10	<10	<10	<1	<1	<1	<1	<1
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<10	<10	<10	<10	<10
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<30	<30	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	1.7	<1	1.1	1.1
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<20	<20	<2	<2	<2	<2	<2
Tetrachloroethene	5	1,470	888.0	787.0	863.0	351.0	1,390	1,100	315.0	1,100	166.0	185.0	104.0	154.0#	134.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Trichloroethene	5	145.0	50.8	35.6	49.7	34.7	65.4	56.3	25.1	46.8	16.5	23.3	11.1	27.7	28.2
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1,631.3	938.8	822.6	912.7	385.7	1,466.3	1,156.3	340.1	1,146.8	182.5	210.0	115.1	182.8	163.3
Total Concentration of VOCs		1,631.3	938.8	822.6	912.7	385.7	1,466.3	1,156.3	340.1	1,146.8	182.5	210.0	115.1	182.8	163.3

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

- result is above calibration point

All analyses by LBNL EML unless otherwise noted

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-96-2 (continued) 6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	1.9	3.3	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	<3	<3	0.54	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	0.52	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	1.1	1.0	5.5	7.8	2.7	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	234.0	132.0	224.0	151.0	180.0	94.3	78.4	108.0	65.6	106.0	61.9	57.3	61.3	52.9
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	26.7	30.7	73.6	60.8	50.0	19.6	13.9	14.8	9.0	20.6	12.2	9.1	11.9	13.4
Freon-113	1200	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		261.8	163.7	305.0	222.9	235.26	113.9	92.3	122.8	74.6	126.6	74.1	66.4	73.2	66.3
Total Concentration of VOCs		261.8	163.7	305.0	222.9	235.26	113.9	92.3	122.8	74.6	126.6	74.1	66.4	73.2	66.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-96-2 (continued)				EW7-96-4	EW7-96-4R								
		3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	13-Oct-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	15-Mar-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
n-Butylbenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
sec-Butylbenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
ter-Butylbenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Chlorobenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,2-Dichlorobenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,4-Dichlorobenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Ethylbenzene	700	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Isopropylbenzene		<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20
p-Isopropyltoluene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50
Naphthalene		<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20
n-Propylbenzene		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Toluene	150	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Xylenes, total	1750	<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<10	<20
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Bromoform		<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<10	<10	11.3	<10	14.3	<10	<10	<10	5.1	<10
Chloromethane		<10	<10	<10	<10	<100	<100	<100	<100	<100	<100	<100	<100	<5	<100
Chloroform	100	<3	<3	<3	<3	<30	<30	<30	<30	<30	<30	<30	<30	<5	<30
1,1-Dichloroethane	5	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20
1,1-Dichloroethene	6	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,2-Dichloropropane	5	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Methylene Chloride	5	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20
Tetrachloroethene	5	45.2	44.0	36.7	45.1	291.0	809.0	1,190	792.0	1,320	258.0	528.0	365.0	730.0	303.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Trichloroethene	5	13.2	14.2	12.0	15.2	38.5	78.1	202.0	73.6	95.6	57.5	49.4	27.6	100.0	21.3
Freon-113	1200	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Freon-123A		<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10		<10
Vinyl Chloride	0.5	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10
Total Halogenated Hydrocarbons		58.4	58.2	48.7	60.3	329.5	887.1	1,403.3	865.6	1,429.9	315.5	577.4	392.6	835.1	324.3
Total Concentration of VOCs		58.4	58.2	48.7	60.3	329.5	887.1	1,403.3	865.6	1,429.9	315.5	577.4	392.6	835.1	324.3

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-96-4R (continued)												EW7-03-1	
		7-Apr-04	20-Apr-04	4-May-04	18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	3-Oct-03*	8-Oct-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<0.5	<50
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	2.0	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<1	<20
Total Aromatic Hydrocarbons														2.0	
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Bromoform		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20
Carbon Tetrachloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10.0	12.5
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<0.5	<100
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2.0	<10
cis-1,2-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	5.1	<10
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.7	<20
Tetrachloroethene	5	318.0	437.0	378.0	596.0	312.0	335.0	335.0	409.0	345.0	526.0	312.0	269.0	450.0	587.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Trichloroethene	5	19.5	42.1	30.1	52.0	27.9	26.5	35.3	44.3	39.7	70.0	43.8	<10	140.0	156.0
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10
Total Halogenated Hydrocarbons		337.5	479.1	408.1	648.0	339.9	361.5	370.3	453.3	384.7	596.0	355.8	269.0	608.8	755.5
Total Concentration of VOCs		337.5	479.1	408.1	648.0	339.9	361.5	370.3	453.3	384.7	596.0	355.8	269.0	610.8	755.5

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-1 (continued)													
		21-Oct-03	4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	10-Mar-04	15-Mar-04	7-Apr-04	20-Apr-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	<20	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Bromoform		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
Carbon Tetrachloride	0.5	10.3	12.8	13.1	38.8	<10	45.3	18.1	12.2	13.5	42.0	25.0	12.7	11.7	12.8
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<5	<100	<100	<100	<100
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<30	<30	<5	<30	<30	<30	<30
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	6.0	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	<10	<10	<10	22.7	<10	13.2	<10	<10	<10	15.0	15.6	<10	<10	<10
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<20	<20	<5	<20	<20	<20	<20
Tetrachloroethene	5	535.0	573.0	601.0	1,900	124.0	1,150	854.0	602.0	567.0	1,100	1,460	686.0	439.0	562.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Trichloroethene	5	137.0	171.0	171.0	561.0	20.6	699.0	264.0	232.0	199.0	610.0	308.0	202.0	130.0	166.0
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10
Total Halogenated Hydrocarbons		682.3	756.8	785.1	2,522.5	144.6	1,907.5	1,136.1	846.2	779.5	1,773.0	1,808.6	900.7	580.7	740.8
Total Concentration of VOCs		682.3	756.8	785.1	2,522.5	144.6	1,907.5	1,136.1	846.2	779.5	1,773.0	1,808.6	900.7	580.7	740.8

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-1 (continued)										EW7-03-2			
		4-May-04	18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	3-Oct-03*	8-Oct-03	21-Oct-03	4-Nov-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20	<20	<200
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<0.5	<50	<50	<500
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.9	<20	<20	<200
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<1	<20	<20	<200
Total Aromatic Hydrocarbons												1.9			
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Bromoform		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20	<20	<200
Carbon Tetrachloride	0.5	<10	12.3	<10	<10	<10	11.8	11.9	13.6	<10	<10	9.7	14.4	15.8	<100
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<0.5	<100	<100	<1000
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<300
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.59	<10	<10	<100
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<0.5	<20	<20	<200
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2.4	<10	<10	<100
cis-1,2-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14.0	21.3	24.9	<100
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10	<10	<100
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<10	<10	<100
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.5	<20	<20	<200
Tetrachloroethene	5	434.0	556.0	426.0	366.0	367.0	493.0	397.0	438.0	426.0	344.0	680.0	949.0	1,010	740.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Trichloroethene	5	121.0	165.0	142.0	111.0	124.0	170.0	126.0	182.0	149.0	136.0	170.0	238.0	286.0	217.0
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<100
Freon-123A		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<100
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.77	<10	<10	<100
Total Halogenated Hydrocarbons		555.0	733.3	568.0	477.0	491.0	674.8	534.9	633.6	575.0	480.0	878.96	1,222.7	1,336.7	957.0
Total Concentration of VOCs		555.0	733.3	568.0	477.0	491.0	674.8	534.9	633.6	575.0	480.0	880.86	1,222.7	1,336.7	957.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-2 (continued)													
		17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	10-Mar-04	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Chlorobenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<20	<5	<100	<20	<20	<20	<20	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<50	<5	<250	<50	<50	<50	<50	<50
Naphthalene		<20	<20	<20	<20	<20	<20	<20	<5	<100	<20	<20	<20	<20	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Toluene	150	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<20	<10	<100	<20	<20	<20	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Bromoform		<20	<20	<20	<20	<20	<20	<20	<5	<100	<20	<20	<20	<20	<20
Carbon Tetrachloride	0.5	19.1	15.7	46.5	82.9	29.7	18.3	<10	19.0	79.4	56.5	37.5	23.9	29.0	28.5
Chloromethane		<100	<100	<100	<100	<100	<100	<100	<5	<500	<100	<100	<100	<100	<100
Chloroform	100	<30	<30	<30	<30	<30	<30	<30	<5	<150	<30	<30	<30	<30	<30
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<20	<5	<100	<20	<20	<20	<20	<20
1,1-Dichloroethene	6	<10	<10	11.4	23.6	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	23.6	38.2	68.9	121.0	42.1	50.2	<10	21.0	83.0	70.0	27.5	13.7	38.5	31.8
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<20	<5	<100	<20	<20	<20	<20	<20
Tetrachloroethene	5	1,100	988.0	2,380	5,160	1,650	1,420	429.0	930.0	3,480	3,280	1,920	1,030	1,700	1,560#
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Trichloroethene	5	317.0	385.0	847.0	1,370	559.0	492.0	128.0	340.0	1,020	846.0	421.0	399.0	493.0	510.0
Freon-113	1200	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Freon-123A		<10	<10	<10	<10	<10	<10	<10		<50	<10	<10	<10	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<10	<5	<50	<10	<10	<10	<10	<10
Total Halogenated Hydrocarbons		1,459.7	1,426.9	3,353.8	6,757.5	2,280.8	1,980.5	557.0	1,310.0	4,662.4	4,252.5	2,406.0	1,466.6	2,260.5	2,130.3
Total Concentration of VOCs		1,459.7	1,426.9	3,353.8	6,757.5	2,280.8	1,980.5	557.0	1,310.0	4,662.4	4,252.5	2,406.0	1,466.6	2,260.5	2,130.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Result is above calibration curve

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-2 (continued)								EW7-03-3					
		4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	3-Oct-03*	8-Oct-03	21-Oct-03	4-Nov-03	17-Nov-03	1-Dec-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
n-Butylbenzene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
sec-Butylbenzene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
ter-Butylbenzene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Chlorobenzene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<10	<10	<1	<10	<10	<10	<10	<10	1.0	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<10	<10	<1	<10	<10	<10	<10	<10	0.55	<100	<100	<100	<100	<100
Ethylbenzene	700	<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Isopropylbenzene		<20	<20	<2	<20	<20	<20	<20	<20	<0.5	<200	<200	<200	<200	<200
p-Isopropyltoluene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<50	<50	<5	<50	<50	<50	<50	<50	<0.5	<500	<500	<500	<500	<500
Naphthalene		<20	<20	<2	<20	<20	<20	<20	<20	<0.5	<200	<200	<200	<200	<200
n-Propylbenzene		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Toluene	150	<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Xylenes, total	1750	<20	<20	<2	<20	<20	<20	<20	<20	<1	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons										1.55					
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Bromoform		<20	<20	<2	<20	<20	<20	<20	<20	3.6	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	13.0	10.1	10.3	10.6	10.3	12.6	<10	<10	240.0#	306.0	248.0	254.0	244.0	213.0
Chloromethane		<100	<100	<10	<100	<100	<100	<100	<100	<0.5	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<30	<30	<3	<30	<30	<30	<30	<30	7.7	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<10	<10	<1	<10	<10	<10	<10	<10	10.0	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<20	<20	<2	<20	<20	<20	<20	<20	1.0	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<10	<10	1.2	<10	<10	<10	<10	<10	82.0	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	<10	<10	6.7	<10	<10	<10	<10	<10	240.0	217.0	184.0	230.0	202.0	197.0
trans-1,2-Dichloroethene	10	<10	<10	<1	<10	<10	<10	<10	<10	4.0	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Methylene Chloride	5	<10	<10	<1	<10	<10	<10	<10	<10	<1	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<10	<10	<1	<10	<10	<10	<10	<10	<1	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<20	<20	<2	<20	<20	<20	<20	<20	34.0	<200	<200	<200	<200	<200
Tetrachloroethene	5	534.0	461.0	502.0	432.0	321.0	375.0	371.0	211.0	17,000	16,300	14,200	13,500	13,800	12,300
1,1,1-Trichloroethane	200	<10	<10	<1	<10	<10	<10	<10	<10	4.3	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<10	<10	<1	<10	<10	<10	<10	<10	1.9	<100	<100	<100	<100	<100
Trichloroethene	5	191.0	154.0	171.0	172.0	149.0	192.0	188.0	101.0	4,200	4,330	3,810	3,870	3,610	3,490
Freon-113	1200	<10	<10	<1	<10	<10	<10	<10	<10	<0.5	<100	<100	<100	<100	<100
Freon-123A		<10	<10	<1	<10	<10	<10	<10	<10		<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<10	<10	<1	<10	<10	<10	<10	<10	10.0	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		738.0	625.1	691.2	614.6	480.3	579.6	559.0	312.0	21,838.50	21,153	18,442	17,854	17,856	16,200
Total Concentration of VOCs		738.0	625.1	691.2	614.6	480.3	579.6	559.0	312.0	21,840.05	21,153	18,442	17,854	17,856	16,200

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

- Estimate, above calibration range
* = Analysis by Sequoia Analytical

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-3 (continued)													
		12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	10-Mar-04	16-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04	4-Jun-04	17-Jun-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
sec-Butylbenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
ter-Butylbenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Chlorobenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene		<20	<200	<200	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200
p-Isopropyltoluene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<50	<500	<500	<500	<500	<50	<500	<500	<500	<500	<500	<500	<500	<500
Naphthalene		<20	<200	<200	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200
n-Propylbenzene		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Toluene	150	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Xylenes, total	1750	<20	<200	<200	<200	<200	<100	<200	<200	<200	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform		<20	<200	<200	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	<10	175.0	173.0	169.0	156.0	140.0	115.0	<100	123.0	144.0	115.0	103.0	112.0	123.0
Chloromethane		<100	<1000	<1000	<1000	<1000	<50	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<30	<300	<300	<300	<300	<50	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<20	<200	<200	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	<10	189.0	179.0	180.0	125.0	130.0	<100	<100	111.0	119.0	120.0	<100	102.0	<100
trans-1,2-Dichloroethene	10	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Methylene Chloride	5	<10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<20	<200	<200	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200
Tetrachloroethene	5	466.0	9,870	10,400	9,320	7,490	7,600	5,940	5,490	5,710	7,860	6,390	5,590	5,760	6,130
1,1,1-Trichloroethane	200	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Trichloroethene	5	89.7	2,540	2,800	2,650	2,170	2,000	1,670	1,610	1,570	2,110	1,830	1,650	1,610	1,660
Freon-113	1200	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Freon-123A		<10	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<10	<100	<100	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		555.7	12,774	13,552	12,319	9,941	9,870	7,725	7,100	7,514	10,233	8,455	7,343	7,584	7,913
Total Concentration of VOCs		555.7	12,774	13,552	12,319	9,941	9,870	7,725	7,100	7,514	10,233	8,455	7,343	7,584	7,913

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW7-03-3 (continued)						DPE7-03-1							
		1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
sec-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
ter-Butylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Chlorobenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
p-Isopropyltoluene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
Naphthalene		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
n-Propylbenzene		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Toluene	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylenes, total	1750	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	124.0	109.0	108.0	124.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Chloromethane		<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	<100	105.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
trans-1,2-Dichloroethene	10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methylene Chloride	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Tetrachloroethene	5	5,790	5,620	5,540	5,690	5,450	4,630	13,400	8,740	6,440	2,230	2,980	2,590	3,380	2,460
1,1,1-Trichloroethane	200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Trichloroethene	5	1,640	1,570	1,430	1,740	1,540	1,260	143.0	<100	<100	<100	<100	<100	<100	<100
Freon-113	1200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Freon-123A		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		7,554	7,404	7,078	7,554	6,990	5,890	13,543	8,740	6,440	2,230	2,980	2,590	3,380	2,460
Total Concentration of VOCs		7,554	7,404	7,078	7,554	6,990	5,890	13,543	8,740	6,440	2,230	2,980	2,590	3,380	2,460

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	DPE7-03-1 (continued)													
		2-Mar-04*	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
n-Butylbenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
sec-Butylbenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
ter-Butylbenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Chlorobenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Ethylbenzene	700	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Isopropylbenzene		<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
p-Isopropyltoluene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<20	<500	<500	<500	<500	<500	<500	<500	<50	<500	<500	<500	<500	<500
Naphthalene		<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
n-Propylbenzene		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Toluene	150	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Xylenes, total	1750	<30	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Bromoform		<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Chloromethane		<20	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<100	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<20	<300	<300	<300	<300	<300	<300	<300	<30	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
trans-1,2-Dichloroethene	10	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Methylene Chloride	5	<30	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<20	<200	<200	<200	<200	<200	<200	<200	<20	<200	<200	<200	<200	<200
Tetrachloroethene	5	3,900	2,680	3,800	5,100	5,740	6,350	6,350	5,480	5,890	4,230	4,810	2,920	2,760	2,040
1,1,1-Trichloroethane	200	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Trichloroethene	5	43.0	<100	53.8	<100	115.0	<100	<100	120.0	139.0	124.0	<100	<100	<100	<100
Freon-113	1200	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Freon-123A			<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<20	<100	<100	<100	<100	<100	<100	<100	<10	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		3,943	2,680	3,854	5,100	5,855	6,350	6,350	5,600	6,029	4,354	4,810	2,920	2,760	2,040
Total Concentration of VOCs		3,943	2,680	3,854	5,100	5,855	6,350	6,350	5,600	6,029	4,354	4,810	2,920	2,760	2,040

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	DPE7-03-2													
		4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Chlorobenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<200	<20	<20	<20	<20	<20	<20	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<500	<50	<50	<50	<50	<50	<50	<5	<0.5	<5	<5	<5	<5	<5
Naphthalene		<200	<20	<20	<20	<20	<20	<20	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<200	<20	<20	<20	<20	<20	<20	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Bromoform		<200	<20	<20	<20	<20	<20	<20	<2	<0.5	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Chloromethane		<1000	<100	<100	<100	<100	<100	<100	<10	<0.5	<10	<10	<10	<10	<10
Chloroform	100	<300	<30	<30	<30	<30	<30	<30	<3	<0.5	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<200	<20	<20	<20	<20	<20	<20	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<100	<10	<10	<10	<10	<10	<10	1.3	0.80	<1	1.6	2.3	2.5	1.2
cis-1,2-Dichloroethene	6	<100	<10	<10	<10	<10	<10	<10	6.4	3.6	5.4	5.9	7.7	8.7	4.7
trans-1,2-Dichloroethene	10	<100	<10	<10	<10	<10	<10	<10	1.8	0.95	<1	2.1	2.9	3.1	1.5
1,2-Dichloropropane	5	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<100	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<200	<20	<20	<20	<20	<20	<20	<2	<0.5	<2	<2	<2	<2	<2
Tetrachloroethene	5	676.0	425.0	631.0	194.0	187.0	133.0	135.0	158.0	99.0	148.0	117.0	125.0	100.0	112.0
1,1,1-Trichloroethane	200	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	<100	93.6	91.1	96.4	89.1	93.5	96.6	112.0	57.0	109.0	104.0	144.0	139.0	72.3
Freon-113	1200	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Freon-123A		<100	<10	<10	<10	<10	<10	<10	<1		<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<100	<10	<10	<10	<10	<10	<10	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		676.0	518.6	722.1	290.4	276.1	226.5	231.6	279.5	161.35	262.4	230.6	281.9	253.3	191.7
Total Concentration of VOCs		676.0	518.6	722.1	290.4	276.1	226.5	231.6	279.5	161.35	262.4	230.6	281.9	253.3	191.7

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	DPE7-03-2 (continued)								DPE7-03-3					
		4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	4-Nov-03	17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
n-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
sec-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
ter-Butylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Chlorobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Isopropylbenzene		<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
p-Isopropyltoluene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<5	<5	<50	<5	<5	<5	<5	<5	<500	<500	<500	<500	<500	<500
Naphthalene		<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
n-Propylbenzene		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Toluene	150	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Xylenes, total	1750	<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Bromoform		<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Chloromethane		<10	<10	<100	<10	<10	<10	<10	<10	<1000	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<3	<3	<30	<3	<3	<3	<3	<3	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<1	<1	<10	1.9	<1	3.2	<1	<1	<100	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	3.9	5.4	<10	8.2	7.4	9.1	6.2	7.9	199.0	371.0	168.0	<100	<100	<100
trans-1,2-Dichloroethene	10	1.5	2.0	<10	2.9	2.9	3.4	2.2	3.1	<100	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<2	<2	<20	<2	<2	<2	<2	<2	<200	<200	<200	<200	<200	<200
Tetrachloroethene	5	177.0	130.0	147.0	208.0	132.0	97.1	74.8	77.4	9,240	10,800	11,300	5,660	7,530	3,290
1,1,1-Trichloroethane	200	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Trichloroethene	5	63.3	95.6	117.0	160.0	132.0	119.0	99.7	108.0	641.0	537.0	497.0	832.0	665.0	398.0
Freon-113	1200	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Freon-123A		<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<1	<1	<10	<1	<1	<1	<1	<1	<100	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		245.7	233.0	264.0	381.0	274.3	231.8	182.9	196.4	10,080	11,708	11,965	6,492	8,195	3,688
Total Concentration of VOCs		245.7	233.0	264.0	381.0	274.3	231.8	182.9	196.4	10,080	11,708	11,965	6,492	8,195	3,688

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	DPE7-03-3 (continued) 2-Feb-04	17-Feb-04	2-Mar-04*	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04	4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
sec-Butylbenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
ter-Butylbenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Chlorobenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethylbenzene	700	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene		<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
p-Isopropyltoluene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methyl tert-Butyl Ether	13	<500	<500	<50	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
Naphthalene		<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
n-Propylbenzene		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Toluene	150	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylenes, total	1750	<200	<200	<100	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform		<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.5	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Chloromethane		<1000	<1000	<50	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Chloroform	100	<300	<300	<50	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	5	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloroethane	0.5	<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
1,1-Dichloroethene	6	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
cis-1,2-Dichloroethene	6	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
trans-1,2-Dichloroethene	10	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2-Dichloropropane	5	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methylene Chloride	5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	1	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,1,2-Tetrachloroethane		<200	<200	<50	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Tetrachloroethene	5	2,930	3,530	8,700	4,180	8,010	6,510	3,580	2,870	2,940	3,980	3,850	4,000	3,210	2,540
1,1,1-Trichloroethane	200	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2-Trichloroethane	5	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Trichloroethene	5	462.0	580.0	610.0	329.0	501.0	398.0	334.0	415.0	346.0	389.0	295.0	255.0	265.0	221.0
Freon-113	1200	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Freon-123A		<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Vinyl Chloride	0.5	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Total Halogenated Hydrocarbons		3,392	4,110	9,310	4,509	8,511	6,908	3,914	3,285	3,286	4,369	4,145	4,255	3,475	2,761
Total Concentration of VOCs		3,392	4,110	9,310	4,509	8,511	6,908	3,914	3,285	3,286	4,369	4,145	4,255	3,475	2,761

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

		DPE7-03-3 (continued)		EW25A-02-1	EW58E-98-1						EW58E-98-2			
Constituent	MCL	7-Sep-04	17-Sep-04	Mar-04*	Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Dec-03	Feb-04	Apr-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
n-Butylbenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
sec-Butylbenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
ter-Butylbenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Chlorobenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Ethylbenzene	700	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Isopropylbenzene		<20	<20	<0.5	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
p-Isopropyltoluene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<50	<50	<0.5	<50	<50	<50	<5	<50	<5	<5	<5	<5	<5
Naphthalene		<20	<20	<0.5	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
n-Propylbenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Toluene	150	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Xylenes, total	1750	<20	<20	<1	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Hydrocarbons														
Bromodichloromethane		<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Bromoform		<20	<20	<0.5	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<10	<10	<0.5	25.2	27.1	<10	25.1	20.7	15.7	3.4	9.5	3.7	5.2
Chloromethane		<100	<100	<0.5	<100	<100	<100	<10	<100	<10	<10	<10	<10	<10
Chloroform	100	<30	<30	1.1	<30	<30	<30	<3	<30	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<20	<20	<0.5	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<10	<10	1.5	<10	<10	<10	5.6	<10	<1	<1	2.1	1.1	1.4
cis-1,2-Dichloroethene	6	<10	<10	<0.5	68.4	34.1	12.1	22.8	22.6	17.9	29.5	23.9	8.0	10.6
trans-1,2-Dichloroethene	10	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Methylene Chloride	5	<10	<10	<1	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<20	<0.5	<20	<20	<20	<2	<20	<2	<2	<2	<2	<2
Tetrachloroethene	5	2,450	1,870	0.56	1,030	758.0	243.0	647.0	621.0	465.0	193.0	317.0	126.0	154.0#
1,1,1-Trichloroethane	200	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Trichloroethene	5	219.0	262.0	19.0	1,360	611.0	222.0	532.0	503.0	377.0	227.0	345.0	131.0	140.0
Freon-113	1200	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Freon-123A		<10	<10		<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<10	<10	<0.5	<10	<10	<10	<1	<10	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2,669	2,132	22.16	2,483.6	1,430.2	477.1	1,232.5	1,167.3	875.6	452.9	697.5	269.8	311.2
Total Concentration of VOCs		2,669	2,132	22.16	2,483.6	1,430.2	477.1	1,232.5	1,167.3	875.6	452.9	697.5	269.8	311.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
# - Result is above calibration curve

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW58E-98-2 (Cont'd)		EW58E-98-3						EW58E-98-4					
		Jun-04	Aug-04	Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	28.4	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	6.0	3.0	2.0	15.9	20.6	8.8	10.1	2.5	1.2	<1	<1	<1	1.1	<1
Chloromethane		<10	<10	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	<3	<3	73.0	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	3.8	<10	2.1	2.2	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	12.0	14.5	27.8	29.9	17.6	13.0	16.8	13.6	27.8	15.5	7.9	7.3	8.7	9.7
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	265.0	134.0	200.0	511.0	333.0	290.0	335.0	109.0	206.0	102.0	40.8	51.7	69.8	87.9
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	269.0	130.0	144.0	541.0	350.0	247.0	318.0	99.7	147.0	83.1	52.9	40.6	64.2	57.5
Freon-113	1200	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A		<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		552.0	281.5	373.8	1,101.6	822.6	560.9	682.1	224.8	382.0	200.6	101.6	99.6	143.8	155.1
Total Concentration of VOCs		552.0	281.5	373.8	1,101.6	822.6	560.9	682.1	224.8	382.0	200.6	101.6	99.6	143.8	155.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW58E-98-5						EW58E-98-6						EW58E-98-7	
		Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Dec-03
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
n-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
sec-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
ter-Butylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Chlorobenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,2-Dichlorobenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,4-Dichlorobenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Ethylbenzene	700	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Isopropylbenzene		<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
p-Isopropyltoluene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<5	<5	<5	<5	<5	<5	<50	<5	<5	<50	<50
Naphthalene		<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
n-Propylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Toluene	150	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,2,4-Trimethylbenzene		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Xylenes, total	1750	<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Bromodichloromethane		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Bromoform		<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
Carbon Tetrachloride	0.5	<10	<10	<10	4.5	10.6	10.9	1.2	2.4	5.2	<10	1.7	1.3	19.7	<10
Chloromethane		<100	<100	<100	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<100
Chloroform	100	<30	<30	<30	<3	3.4	3.6	<3	<3	3.4	<30	<3	<3	<30	<30
1,1-Dichloroethane	5	<10	<10	<10	<1	1.0	<1	<1	<1	1.4	<10	<1	<1	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	1.3	3.0	3.0	<1	1.4	3.6	<10	<1	<1	<10	<10
cis-1,2-Dichloroethene	6	43.5	61.8	49.2	41.6	54.8	55.1	81.7	86.3	225.0	60.2	61.4	50.2	281.0	293.0
trans-1,2-Dichloroethene	10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Methylene Chloride	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<2	<2	<2	<2	<2	<2	<20	<2	<2	<20	<20
Tetrachloroethene	5	272.0	374.0	166.0	187.0	360.0	364.0	202.0	205.0	457.0	151.0	169.0	136.0	3,160	1,110
1,1,1-Trichloroethane	200	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Trichloroethene	5	375.0	517.0	316.0	323.0	532.0	539.0	224.0	256.0	470.0	170.0	197.0	159.0#	693.0	720.0
Freon-113	1200	<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Freon-123A		<10	<10	<10	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<1	<1	<1	<1	<1	1.3	<10	<1	<1	<10	<10
Total Halogenated Hydrocarbons		690.5	952.8	531.2	557.4	964.8	975.6	508.9	551.1	1,166.9	381.2	429.1	346.5	4,153.7	2,123.0
Total Concentration of VOCs		690.5	952.8	531.2	557.4	964.8	975.6	508.9	551.1	1,166.9	381.2	429.1	346.5	4,153.7	2,123.0

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

- Result is above calibration curve

All analyses by LBNL EML unless otherwise noted

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW58E-98-7 (continued)				EW58E-98-8						EW58-02-1[T]		
		Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Dec-03	Feb-04	Apr-04	Jun-04	Aug-04	Oct-03	Nov-03	Dec-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
n-Butylbenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
sec-Butylbenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
ter-Butylbenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Chlorobenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Ethylbenzene	700	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Isopropylbenzene		<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	<2	<2	<2
p-Isopropyltoluene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<250	<50	<5	<5	<5	<5	<250	<50	<5	<5	<5	<5	<5
Naphthalene		<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	<2	<2	<2
n-Propylbenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Toluene	150	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Xylenes, total	1750	<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Hydrocarbons														
Bromodichloromethane		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Bromoform		<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<50	<10	1.3	1.5	3.0	13.7	<50	<10	6.3	6.9	29.9	31.4	29.0
Chloromethane		<500	<100	<10	<10	<10	<10	<500	<100	<10	<10	<10	<10	<10
Chloroform	100	<150	<30	<3	<3	5.3	8.4	<150	<30	3.7	4.6	3.6	3.9	3.1
1,1-Dichloroethane	5	<50	<10	<1	<1	3.2	4.8	<50	<10	1.4	2.1	3.3	3.0	2.4
1,2-Dichloroethane	0.5	<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<50	<10	<1	<1	4.7	9.3	<50	<10	3.7	5.6	20.3	19.1	15.3
cis-1,2-Dichloroethene	6	237.0	95.3	67.0	81.4	200.0	355.0	176.0	97.8	122.0	156.0	53.1	58.5	45.5
trans-1,2-Dichloroethene	10	<50	<10	<1	<1	<1	1.9	<50	<10	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Methylene Chloride	5	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<100	<20	<2	<2	<2	<2	<100	<20	<2	<2	7.3	8.5	5.7
Tetrachloroethene	5	725.0	419.0	228.0	296.0	177.0	792.0	608.0	429.0	391.0	427.0	2,250	2,300	1,820
1,1,1-Trichloroethane	200	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Trichloroethene	5	492.0	268.0	161.0	193.0	386.0	1,120	431.0	276.0	311.0	441.0	896.0	912.0	705.0
Freon-113	1200	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Freon-123A		<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<50	<10	<1	<1	<1	<1	<50	<10	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1,454.0	782.3	457.3	571.9	779.2	2,305.1	1,215.0	802.8	839.1	1,043.2	3,263.5	3,336.4	2,626.0
Total Concentration of VOCs		1,454.0	782.3	457.3	571.9	779.2	2,305.1	1,215.0	802.8	839.1	1,043.2	3,263.5	3,336.4	2,626.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

[T]Treatment system influent samples

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	EW58-02-1[T] (continued)									IW7-02-1		
		Jan-04	Feb-04	Mar-04*	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	8-Oct-03	21-Oct-03	4-Nov-03
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Hydrocarbons													
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	21.4	17.9	20.0	19.1	17.5	17.1	16.6	16.3	14.5	3.5	2.2	3.7
Chloromethane		<10	<10	<0.5	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	2.0	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	2.1	2.2	1.6	1.9	1.9	1.5	1.6	1.8	2.0	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	12.0	11.0	10.0	10.0	10.0	9.7	9.8	10.2	13.4	<1	<1	<1
cis-1,2-Dichloroethene	6	39.5	45.0	32.0	37.6	46.4	41.3	45.8	52.2	54.9	13.9	8.0	17.2
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		5.0	5.7	3.4	3.9	5.0	3.7	3.5	4.6	4.5	<2	<2	<2
Tetrachloroethene	5	1,830	1,850	1,000	1,470	1,390	1,450	1,380	1,400	1,220	120.0	84.7	108.0
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	652.0	610.0	370.0	480.0	472.0	451.0	437.0	412.0	379.0	74.2	48.4	95.6
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2
Freon-123A		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2,562.0	2,541.8	1,439.0	2,022.5	1,942.8	1,974.3	1,894.3	1,897.1	1,688.3	211.6	143.3	224.5
Total Concentration of VOCs		2,562.0	2,541.8	1,439.0	2,022.5	1,942.8	1,974.3	1,894.3	1,897.1	1,688.3	211.6	143.3	224.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	IW7-02-1 (continued) 17-Nov-03	1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	10-Mar-04	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	1.0	1.3	<1
1,2,4-Trimethylbenzene		<1	<1	<1	1.5	<1	<1	2.1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons					1.5			2.1					1.0	1.3	
Halogenated Hydrocarbons															
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Bromoform		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10	<10	<10
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	13.0	5.1	<1	135.0	3.5	1.4	42.7	1.3	1.9	<1	3.0	2.9	2.7	4.3
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	11.7	11.6	4.1	20.4	10.7	12.4	2.8	9.6	18.5	12.8	12.0	8.2	10.6	12.4
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	5.2	3.8	1.3	7.4	4.2	3.8	<1	4.0	9.5	4.0	6.3	4.2	5.2	7.2
Freon-113	1200	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
Freon-123A		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		29.9	20.5	5.4	162.8	18.4	17.6	45.5	14.9	29.9	16.8	21.3	15.3	18.5	23.9
Total Concentration of VOCs		29.9	20.5	5.4	164.3	18.4	17.6	47.6	14.9	29.9	16.8	21.3	16.3	19.8	23.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	IW7-02-1 (continued)								IW7-02-5	IW7-02-6			
		4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	Mar-04	8-Oct-03	21-Oct-03	4-Nov-03	17-Nov-03
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Total Aromatic Hydrocarbons														
Halogenated Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Bromoform		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.9	<1	1.8	30.9	<10
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<30
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
cis-1,2-Dichloroethene	6	2.9	3.8	5.8	5.4	1.6	1.8	<1	2.1	<1	<1	<1	<10	<10
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Tetrachloroethene	5	11.3	13.5	13.4	15.2	6.5	7.2	11.5	14.1	110.0	20.6	115.0	1,170	291.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Trichloroethene	5	5.9	7.1	7.1	7.1	2.6	3.6	5.7	8.3	21.4	2.2	20.1	240.0	71.1
Freon-113	1200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<20
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10
Vinyl Chloride	0.5	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<10	<10
Total Halogenated Hydrocarbons		20.1	24.4	26.3	29.1	10.7	12.6	17.2	24.5	133.3	22.8	136.9	1,440.9	362.1
Total Concentration of VOCs		20.1	24.4	26.3	29.1	10.7	12.6	17.2	24.5	133.3	22.8	136.9	1,440.9	362.1

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	IW7-02-6 (continued) 1-Dec-03	12-Dec-03	6-Jan-04	20-Jan-04	2-Feb-04	17-Feb-04	2-Mar-04*	10-Mar-04	15-Mar-04	7-Apr-04	20-Apr-04	4-May-04	18-May-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
n-Butylbenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
sec-Butylbenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
ter-Butylbenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Chlorobenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,2-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,4-Dichlorobenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Ethylbenzene	700	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Isopropylbenzene		<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
p-Isopropyltoluene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Methyl tert-Butyl Ether	13	<50	<50	<50	<50	<50	<50	<0.5	<5	<5	<50	<50	<50	<50
Naphthalene		<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
n-Propylbenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Toluene	150	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,2,4-Trimethylbenzene		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Xylenes, total	1750	<20	<20	<20	<20	<20	<20	<1	<2	<2	<20	<20	<20	<20
Total Aromatic Hydrocarbons														
Halogenated Hydrocarbons														
Bromodichloromethane		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Bromoform		<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
Carbon Tetrachloride	0.5	<10	<10	12.6	<10	11.5	<10	<0.5	<1	<1	<10	<10	<10	<10
Chloromethane		<100	<100	<100	<100	<100	<100	<0.5	<10	<10	<100	<100	<100	<100
Chloroform	100	<30	<30	<30	<30	<30	<30	<0.5	<3	<3	<30	<30	<30	<30
1,1-Dichloroethane	5	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,2-Dichloroethane	0.5	<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
1,1-Dichloroethene	6	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	<10	<10	<10	11.4	<10	1,730	4.8	5.6	13.1	19.3	24.5	33.6	32.8
trans-1,2-Dichloroethene	10	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,2-Dichloropropane	5	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<1	<1	<1	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	1	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane		<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
Tetrachloroethene	5	237.0	148.0	392.0	348.0	399.0	13.3	38.0	68.6	46.5	223.0	289.0	290.0	315.0
1,1,1-Trichloroethane	200	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Trichloroethene	5	43.1	32.3	97.1	88.0	109.0	<10	5.2	11.9	6.6	41.5	58.4	54.0	60.4
Freon-113	1200	<20	<20	<20	<20	<20	<20	<0.5	<2	<2	<20	<20	<20	<20
Freon-123A		<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Vinyl Chloride	0.5	<10	<10	<10	<10	<10	<10	<0.5	<1	<1	<10	<10	<10	<10
Total Halogenated Hydrocarbons		280.1	180.3	501.7	447.4	519.5	1,743.3	48.0	86.1	66.2	283.8	371.9	377.6	408.2
Total Concentration of VOCs		280.1	180.3	501.7	447.4	519.5	1,743.3	48.0	86.1	66.2	283.8	371.9	377.6	408.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

Table 6-3 (Cont'd)
Old Town Area Extraction Well Sampling Results
Volatile Organic Compounds - EPA Method 8260
Fiscal Year 2004
(concentrations in µg/L)

Constituent	MCL	IW7-02-6 (continued)								HG7-00-1
		4-Jun-04	17-Jun-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	October-03
Aromatic or Non-Halogenated Hydrocarbons										
Benzene	1	<1	<10	<1	<10	<10	<1	<10	<10	<50
n-Butylbenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
sec-Butylbenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
ter-Butylbenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
Chlorobenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
1,2-Dichlorobenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
1,4-Dichlorobenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
Ethylbenzene	700	<1	<10	<1	<10	<10	<1	<10	<10	<50
Isopropylbenzene		<2	<20	<2	<20	<20	<2	<20	<20	<100
p-Isopropyltoluene		<1	<10	<1	<10	<10	<1	<10	<10	<50
Methyl tert-Butyl Ether	13	<5	<50	<5	<50	<50	<5	<50	<50	<250
Naphthalene		<2	<20	<2	<20	<20	<2	<20	<20	<100
n-Propylbenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
Toluene	150	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,2,4-Trimethylbenzene		<1	<10	<1	<10	<10	<1	<10	<10	<50
Xylenes, total	1750	<2	<20	<2	<20	<20	<2	<20	<20	<100
Total Aromatic Hydrocarbons										
Halogenated Hydrocarbons										
Bromodichloromethane		<1	<10	<1	<10	<10	<1	<10	<10	<50
Bromoform		<2	<20	<2	<20	<20	<2	<20	<20	<100
Carbon Tetrachloride	0.5	17.3	<10	1.2	<10	<10	2.2	<10	21.9	<50
Chloromethane		<10	<100	<10	<100	<100	<10	<100	<100	<500
Chloroform	100	<3	<30	<3	<30	<30	<3	<30	<30	<150
1,1-Dichloroethane	5	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,2-Dichloroethane	0.5	<2	<20	<2	<20	<20	<2	<20	<20	<100
1,1-Dichloroethene	6	<1	<10	<1	<10	<10	<1	<10	<10	<50
cis-1,2-Dichloroethene	6	446.0	<10	20.8	<10	<10	8.8	<10	<10	<50
trans-1,2-Dichloroethene	10	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,2-Dichloropropane	5	<1	<10	<1	<10	<10	<1	<10	<10	<50
Methylene Chloride	5	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,1,2,2-Tetrachloroethane	1	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,1,1,2-Tetrachloroethane		<2	<20	<2	<20	<20	<2	<20	<20	<100
Tetrachloroethene	5	494.0	235.0	49.5	151.0	43.5	89.4	311.0	783.0	5,550
1,1,1-Trichloroethane	200	<1	<10	<1	<10	<10	<1	<10	<10	<50
1,1,2-Trichloroethane	5	<1	<10	<1	<10	<10	<1	<10	<10	<50
Trichloroethene	5	140.0	42.7	9.2	32.2	10.1	17.2	65.8	132.0	256.0
Freon-113	1200	<2	<20	<2	<20	<20	<2	<20	<20	<100
Freon-123A		<1	<10	<1	<10	<10	<1	<10	<10	<50
Vinyl Chloride	0.5	1.9	<10	<1	<10	<10	<1	<10	<10	<50
Total Halogenated Hydrocarbons		1,099.2	277.7	80.7	183.2	53.6	117.6	376.8	936.9	5,806
Total Concentration of VOCs		1,099.2	277.7	80.7	183.2	53.6	117.6	376.8	936.9	5,806

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-3 (Cont'd)
Old Town Area Sampling Results from Other Locations
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

Constituent	MCL	IW7-02-1						IW7-02-6					
		1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04	1-Jul-04	15-Jul-04	3-Aug-04	16-Aug-04	7-Sep-04	17-Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,4-Dichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<50	<50	<5	<50	<50
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Styrene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Bromoform		<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	1.2	<10	<10	2.2	<10	21.9
Chloromethane		<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<100	<100
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<30	<30	<3	<30	<30
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
cis-1,2-Dichloroethene	6	5.8	5.4	1.6	1.8	<1	2.1	20.8	<10	<10	8.8	<10	<10
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
Tetrachloroethene	5	13.4	15.2	6.5	7.2	11.5	14.1	49.5	151.0	43.5	89.4	311.0	783.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Trichloroethene	5	7.1	7.1	2.6	3.6	5.7	8.3	9.2	32.2	10.1	17.2	65.8	132.0
Freon-11		<2	<2	<2	<2	<2	<2	<2	<20	<20	<2	<20	<20
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Vinyl Chloride	0.5	<1	1.4	<1	<1	<1	<1	<1	<10	<10	<1	<10	<10
Total Halogenated Hydrocarbons		26.3	29.1	10.7	12.6	17.2	24.5	80.7	183.2	53.6	117.6	376.8	936.9
Total Concentration of VOCs		26.3	29.1	10.7	12.6	17.2	24.5	80.7	183.2	53.6	117.6	376.8	936.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 6-4
Old Town Area Sampling Results from Other Locations
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

Constituent	MCL	MP7-99-1B Aug-04	MP7-99-1B (D)*	MP7-99-2B Aug-04	MP7-99-2B (D)*	SSW19-63 Jul-04	SI15-102 Jul-04
Aromatic or Non-Halogenated Hydrocarbons							
Benzene	1	<1000	<500	<500	<30	<1	<1
n-Butylbenzene		<1000	<500	<500	<30	<1	<1
sec-Butylbenzene		<1000	<500	<500	<30	<1	<1
ter-Butylbenzene		<1000	<500	<500	<30	<1	<1
1,4-Dichlorobenzene	5	<1000	<500	<500	<30	<1	<1
Ethylbenzene	300	<1000	<500	<500	<30	<1	<1
Isopropylbenzene		<2000	<500	<1000	<30	<2	<2
p-Isopropyltoluene		<1000	<500	<500	<30	<1	<1
Methyl tert-Butyl Ether	13	<5000	<500	<2500	<30	<5	<5
Naphthalene		<2000	<500	<1000	<30	<2	<2
n-Propylbenzene		<1000	<500	<500	<30	<1	<1
Styrene		<1000	<500	<500	<30	<1	<1
Toluene	150	<1000	<500	<500	<30	<1	<1
1,2,4-Trimethylbenzene		<1000	<500	<500	<30	<1	<1
1,3,5-Trimethylbenzene		<1000	<500	<500	<30	<1	<1
Xylenes, total	1750	<2000	<1000	<1000	<50	<2	<2
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<1000	<500	<500	<30	<1	<1
Bromoform		<2000	<500	<1000	<30	<2	<2
Carbon Tetrachloride	0.5	2,400	2,100	<500	570.0	<1	1.0
Chloromethane		<10000	<500	<5000	<30	<10	<10
Chloroform	100	<3000	<500	<1500	<30	<3	<3
1,1-Dichloroethane	5	<1000	<500	<500	<30	<1	<1
1,2-Dichloroethane	0.5	<2000	<500	<1000	<30	<2	<2
1,1-Dichloroethene	6	<1000	<500	<500	<30	<1	<1
cis-1,2-Dichloroethene	6	<1000	<500	<500	34.0	<1	11.5
trans-1,2-Dichloroethene	10	<1000	<500	<500	<30	<1	<1
1,2-Dichloropropane	5	<1000	<500	<500	<30	<1	<1
Methylene Chloride	5	<1000	<1000	<500	<50	<1	<1
1,1,2,2-Tetrachloroethane	1	<1000	<500	<500	<30	<1	<1
1,1,1,2-Tetrachloroethane		<2000	<500	<1000	<30	<2	<2
Tetrachloroethene	5	34,500	33,000	15,600	12,000	<1	154.0
1,1,1-Trichloroethane	200	<1000	<500	<500	<30	<1	<1
1,1,2-Trichloroethane	5	<1000	<500	<500	<30	<1	<1
Trichloroethene	5	34,600	31,000	12,800	9,400	<1	72.9
Freon-11		<2000	<500	<1000	<30	<2	<2
Freon-113	1200	<1000	<500	<500	<30	<1	<1
Vinyl Chloride	0.5	<1000	<500	<500	<30	<1	<1
Total Halogenated Hydrocarbons		71,500	66,100	28,400	22,004		239.4
Total Concentration of VOCs		71,500	66,100	28,400	22,004		239.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
(D)* = Duplicate analysis by BC Laboratories

Table 7-1
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Area 5 Wells

Constituent	MCL	31-97-17 (well is on annual sampling)													31-97-18 (well is approved for no further VOC sampling)											
		Oct-97	(D)*	Nov-97	May-98*	Aug-98	Nov-98	Feb-99	May-99	Aug-00*	Aug-01	Aug-02	Jul-03	Jul-04	Oct-97	(D)*	Nov-97	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Jul-00	Jul-01	Aug-02	Oct-02
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5		<5		<5	<5	<5	<5	0.56	<5	<5	<5	<5	<5		<5		<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons										0.56																
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<3	<3	<3	<3	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																										
Total Concentration of VOCs										0.56																

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	31-98-17 Nov-98 (G)	Jul-99	Jul-99	(D)*	Nov-99	Feb-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<0.5	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																									
Total Concentration of VOCs																									

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	61-92-12																					
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	Nov-94*	Mar-95*	Sep-95	Mar-96	Aug-96	Mar-97	Jun-97	Aug-97	Nov-97	Feb-98	Jun-98	Sep-98	Nov-98	Feb-99
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	2.0	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			2.0																				
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	3.9	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons							3.9																
Total Concentration of VOCs			2.0				3.9																

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	61-92-12 (continued)																						
		May-99	Aug-99	Nov-99	Feb-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Jul-01*	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Oct-02	Jan-03	Apr-03	Jul-03*	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	0.63	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	1.3
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	3.0	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons											0.63					3.0								1.3
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons																								
Total Concentration of VOCs											0.63					3.0								1.3

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

All analyses by LBNL EML unless otherwise noted

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	69-97-8 (well is on semi-annual sampling)																							
		Feb-98	Jul-98	(D)*	Nov-98	Jan-99*	May-99	Aug-99	Nov-99	Feb-00	May-00	Sep-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03	Sep-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<1	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	2.1	2.8	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			2.1	2.8																					
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<3	<3	<3	3.1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	26.5	19.6	23.0	27.8	20.0	29.4	20.6	27.1	20.8	21.0	25.1	22.7	18.4	17.7	21.7	19.0	17.5	11.9	17.3	13.6	17.4	12.7	11.3	9.0
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	5.5	11.0	11.1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<0.5	<1	3.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		26.5	19.6	23.0	27.8	20.0	29.4	23.8	27.1	20.8	21.0	25.1	22.7	18.4	22.1	21.7	19.0	17.5	11.9	17.3	19.1	28.4	23.8	11.3	9.0
Total Concentration of VOCs		26.5	21.7	25.8	27.8	20.0	29.4	23.8	27.1	20.8	21.0	25.1	22.7	18.4	22.1	21.7	19.0	17.5	11.9	17.3	19.1	28.4	23.8	11.3	9.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	69A-92-22 (well is on annual sampling)																								
		Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Dec-94*	Feb-95*	(D)*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	Aug-97	Feb-98	Aug-98	Feb-99	Aug-00	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	3.0	1.9	<1	0.67	<1	0.87	0.76	0.71	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	4.1	2.2	1.5	0.73	<1	0.96	0.81	0.82	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	5.1	2.2	1.2	0.64	<1	0.87	0.69	0.72	0.50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	1.0	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	<1	1.2	1.5	<1	<1	<1	1.5	2.3	<1	1.4	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbo		12.2	6.3	3.7	2.04	3.0	2.70	2.26	2.25	0.50		1.2	2.6				1.5	2.3		1.4						
Total Concentration of VOCs		12.2	6.3	3.7	2.04	3.0	2.70	2.26	2.25	0.50		1.2	2.6				1.5	2.3		1.4						

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	69A-00-11 Oct-00	(D)*	Jan-01	May-01	Aug-01	Nov-01	Jan-02	May-02	Aug-02	Nov-02	Jan-03	Apr-03	Jul-03*	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	0.58	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	0.57	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	0.68	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	0.57	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.83								1.1			0.57				
Total Concentration of VOCs			1.83								1.1			0.57				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75-92-23 (well is on annual sampling)																				
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Sep-94	Feb-95*	Aug-95	Mar-96	Jul-96	Dec-96	Feb-97	Aug-97	Aug-98	Sep-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	2.44	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons											1.0							2.44				
Total Concentration of VOCs											1.0							2.44				

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75-96-20 (well is on semi-annual sampling)																											
		Mar-97	(D)*	Jun-97	Aug-97	Nov-97	Feb-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Sep-99	Nov-99	Mar-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Aug-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03	Feb-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	0.84	2.5	1.3	1.3	1.0	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	2.0	3.2	6.3	2.7	2.8	1.7	2.6	2.2	2.3	1.8	1.9	2.7	3.0	2.6	2.9	2.1	1.9	1.4	1.4	2.3	<1	1.4	<1	1.6	1.8	<1	1.9	2.2
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	2.4	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	7.1	15.2	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	6.0	5.0	12.0	7.3	8.6	7.3	9.3	5.8	5.3	5.6	4.7	7.0	6.1	7.7	4.4	4.1	4.6	5.2	5.1	6.2	5.3	5.8	6.0	6.9	6.1	7.5	4.2	4.7
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		10.4	9.04	21.8	11.3	12.7	10.0	13.2	8.0	7.6	7.4	6.6	9.7	9.1	11.9	7.3	6.2	6.5	7.9	6.5	8.5	5.3	7.2	6.0	8.5	15.0	22.7	6.1	6.9
Total Concentration of VOCs		10.4	9.04	21.8	11.3	12.7	10.0	13.2	8.0	7.6	7.4	6.6	9.7	9.1	11.9	7.3	6.2	6.5	7.9	6.5	8.5	5.3	7.2	6.0	8.5	15.0	22.7	6.1	6.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Area 3 Well

Constituent	MCL	75-97-5 (well is on semi-annual sampling)																					
		Aug-98	(D)*	Nov-98	Mar-99	May-99	Sep-99	Nov-99	Feb-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Aug-01	Dec-01	Feb-02	May-02	Aug-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	1.4	1.8	1.8	3.5	2.7	2.2	2.2	2.2	2.7	1.7	2.4	3.2	2.4	2.1	2.0	2.3	1.4	1.5	1.5	1.4	1.4	1.2
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.5	2.2	1.9	2.1	3.5	2.9	3.0	3.1	4.0	2.4	1.9	3.7	3.8	3.6	2.6	4.8	1.9	3.1	2.6	2.5	3.0	2.1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.9	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2.9	4.0	3.7	5.6	6.2	5.1	5.2	5.3	6.7	4.1	4.3	6.9	6.2	5.7	4.6	7.1	3.3	4.6	6.0	3.9	4.4	3.3
Total Concentration of VOCs		2.9	4.0	3.7	5.6	6.2	5.1	5.2	5.3	6.7	4.1	4.3	6.9	6.2	5.7	4.6	7.1	3.3	4.6	6.0	3.9	4.4	3.3

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75-98-14 (well is on semi-annual sampling)																		
		Jul-99	(D)*	Nov-99	Feb-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Dec-01	Feb-02	May-02	Aug-02	Feb-03	Aug-03	Sep-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	5.4	4.9	1.3	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	0.76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	3.9	3.9	4.0	2.1	2.0	1.7	1.9	2.1	4.1	3.7	4.2	2.5	2.8	3.7	3.2	4.7	5.2	3.9	4.3
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.5	46.3	13.4	1.3	1.2
1,1,1-Trichloroethane	200	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.3	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		9.3	10.86	5.3	2.1	2.0	1.7	1.9	2.1	4.1	3.7	4.2	2.5	2.8	3.7	10.7	54.3	18.6	5.2	5.5
Total Concentration of VOCs		9.3	10.86	5.3	2.1	2.0	1.7	1.9	2.1	4.1	3.7	4.2	2.5	2.8	3.7	10.7	54.3	18.6	5.2	5.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75-99-4 (well is on annual sampling)															
		Oct-99	(D)*	Nov-99	Feb-00	May-00	Sep-00	Nov-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	1.0	1.4
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				1.2											1.1	1.0	1.4
Total Concentration of VOCs				1.2											1.1	1.0	1.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75-99-7 (well is on semi-annual sampling)																
		Dec-99	(D)*	Feb-00	May-00	Sep-00	Nov-00	Mar-01	May-01	Sep-01	Dec-01	Feb-02	May-02	Aug-02	Feb-03	Aug-03	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	4.6	4.8	4.9	5.6	2.7	2.4	3.0	2.4	2.5	2.3	1.4	<1	1.6	1.5	<1	1.3	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.3	3.6	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		4.6	4.8	4.9	5.6	2.7	2.4	3.0	2.4	2.5	2.3	1.4		1.6	5.8	3.6	1.3	
Total Concentration of VOCs		4.6	4.8	4.9	5.6	2.7	2.4	3.0	2.4	2.5	2.3	1.4		1.6	5.8	3.6	1.3	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75A-00-7 Feb-01	Oct-01	Dec-02*	(D)*	Apr-03	Aug-03*	Nov-03	Feb-04	May-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons											
Benzene	1	34.3	37.6	10.0	12.0	32.0	47.0	67.2	53.5	59.6	54.5
n-Butylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<0.5	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<2	<0.5	<0.5	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Toluene	150	1.0	<1	<0.5	<0.5	<1	1.2	1.5	1.1	1.3	1.4
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<1	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons		35.3	37.6	10.0	12.0	32.0	48.2	68.7	54.6	60.9	55.9
Halogenated Non-Aromatic Hydrocarbons											
Carbon Tetrachloride	0.5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<3	<3	<0.5	<0.5	<3	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<0.5	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons											
Total Concentration of VOCs		35.3	37.6	10.0	12.0	32.0	48.2	68.7	54.6	60.9	55.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	75B-92-24 (well is on annual sampling)																								
		Oct-92	(D)	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec 94*	Feb-95*	Sep-95	Mar-96	Jul-96	Dec-96	Mar-97	Aug-97	Sep-98	Sep-99	Jul-00	Sep-01	Aug-02	Jul-03*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	300	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<5	<2	<5	<1	1.3	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<2	<5	<1	2.9	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<5	<2	<5	<1	1.9	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<1		<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons						6.1																				
Total Concentration of VOCs						6.1																				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

(D) Duplicate sample analyzed by Chromalab, EPA Method 8240
* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	MW76-1 (well is on semi-annual sampling)																		
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	(D)*	Dec-94*	Mar-95*	Aug-95	Mar-96	Aug-96	Dec-96*	Mar-97	Jun-97	Aug-97	Feb-98
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.63	0.64	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	0.64	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	0.74	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.52	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	0.55	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons											4.75	1.19				1.38				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.66	<0.5	1.3	1.7	<1	0.70	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.4	<0.5	<1	<1	<1	0.75	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	13.4	9.4	11.1	7.6	5.8	4.9	8.5	2.3	3.9	21.0	12.0	6.1	5.6	8.3	14.0	13.2	12.4	7.9	9.6
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	4.8	<1	<1	5.4	6.0	0.62	<0.5	2.0	2.5	<1	0.77	<1	<1	12.4	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<5	4.8	6.0	4.5	2.7	3.2	3.0	1.6	1.9	9.7	3.2	2.7	3.0	1.6	2.1	3.5	2.5	3.7	4.2
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		13.4	14.2	17.1	12.1	13.3	8.1	11.5	9.3	11.8	33.38	15.2	12.1	12.8	9.9	18.32	16.7	14.9	24.0	13.8
Total Concentration of VOCs		13.4	14.2	17.1	12.1	13.3	8.1	11.5	9.3	11.8	38.13	16.39	12.1	12.8	9.9	19.70	16.7	14.9	24.0	13.8

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	MW76-1 (continued)												
		Sep-98	Feb-99	Sep-99	Feb-00	Aug-00	Mar-01	Sep-01	Feb-02	Sep-02	Feb-03	Aug-03*	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons									1.1					
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	6.3	8.5	6.2	9.0	9.2	9.3	10.5	9.5	3.7	5.7	9.8	9.0	6.7
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	4.1	<1	<1	<1	2.7	4.4	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	1.8	1.5	1.8	2.9	1.7	6.4	4.5	4.3	1.9	3.1	3.5	2.6	2.3
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		8.1	10.0	8.0	11.9	10.9	19.8	15.0	13.8	5.6	11.5	17.7	11.6	9.0
Total Concentration of VOCs		8.1	10.0	8.0	11.9	10.9	19.8	15.0	14.9	5.6	11.5	17.7	11.6	9.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	76-93-6 (well is on annual sampling)																								
		Oct-93	(D)*	Mar-94	May-94	Aug-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Nov-95	Feb-96	Jun-96	Aug-96	Dec-96	Feb-97	Aug-97	Jan-98	Aug-98	Feb-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	1.6	1.6	<1	1.5	<1	1.5	0.98	0.72	1.0	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	1.3	<1	<1	<0.5	<0.5	<0.5	<1	<1	1.1	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	1.2	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1		<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.6	1.6	1.3	1.5		1.5	0.98	0.72	1.0	1.2	2.3	3.6											1.1	
Total Concentration of VOCs		1.6	1.6	1.3	1.5		1.5	0.98	0.72	1.0	1.2	2.3	3.6											1.1	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	76-93-7 (well is on annual sampling) Oct-93	Jan-94	(D)*	Jun-94	Aug-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Dec-95	Feb-96	Jun-96	(S)†	Jun-96†	Aug-96	Dec-96	Mar-97	Jun-97	Feb-98	Aug-98	Jan-99	Jul-00*	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1			<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	3.0	3.1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	10.5	4.4	2.7	<1	0.81	0.73	<0.5	<1	2.2	1.7	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	0.8	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons			13.5	8.3	2.7		0.81	0.73			2.2	1.7															
Total Concentration of VOCs			13.5	8.3	2.7		0.81	0.73			2.2	1.7															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by California Laboratory Services
(D) = Duplicate sample
(S) = Split sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	76-98-21 (well is on semi-annual sampling)																		
		Jul-99	(D)*	Sep-99	Nov-99	Mar-00	May-00	Sep-00	Nov-00	Feb-01	May-01	Sep-01	Nov-01	Feb-02	May-02	Sep-02	Feb-03	Aug-03*	Feb-04*	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<5
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Chloroform	100	<1	<0.5	1.4	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	0.61	<0.5	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
cis-1,2-Dichloroethene	6	<1	1.2	<1	1.2	<1	2.9	1.8	<1	<1	<1	1.5	1.1	1.6	<1	1.7	1.0	2.1	1.9	2.2
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	1.7	0.89	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Trichloroethene	5	12.5	11.0	15.0	13.8	11.4	21.5	16.4	13.6	12.7	14.5	18.1	12.8	17.7	18.8	24.1	13.5	20.0	19.0	17.4
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1
Total Halogenated Hydrocarbons		12.5	12.2	16.4	15.0	11.4	24.4	18.2	13.6	12.7	14.5	19.6	13.9	19.3	18.8	25.8	17.5	24.41	21.79	19.6
Total Concentration of VOCs		12.5	12.2	16.4	15.0	11.4	24.4	18.2	13.6	12.7	14.5	19.6	13.9	19.3	18.8	25.8	17.5	24.41	21.79	19.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	76-98-22 Jan-99	(D)*	May-99#	Sep-99	Nov-99	Feb-00	May-00	Aug-00*	Nov-00	Mar-01	May-01	Sep-01	Nov-01	Feb-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	0.83	<1	<1	<1	1.9	1.7	0.96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			0.83				1.9	1.7	0.96		1.1														
Total Concentration of VOCs			0.83				1.9	1.7	0.96		1.1														

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
= Sample was analyzed after holding time expired

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	77-92-10 (well is on annual sampling)																							
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Aug-94	Dec-94*	Mar-95*	Aug-95	Mar-96	Jul-96	Mar-97	Aug-97	Feb-98	Aug-98	Feb-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.9
1,2,4-Trichlorobenzene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									1.9
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	11.0	4.3	2.9	3.3	2.2	3.6	<1	1.3	1.2	1.1	<1	4.0	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	8.7	2.3	1.5	1.3	1.0	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	2.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			19.7	6.6	4.4	4.6	3.2	3.6		1.3	1.2	1.1		6.0	1.1										
Total Concentration of VOCs			19.7	6.6	4.4	4.6	3.2	3.6		1.3	1.2	1.1		6.0	1.1										1.9

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	77-94-5 (well is on annual sampling)																											
		Jun-94*	(D)†	Sep-94	Dec-94*	Feb-95*	May-95*	Sep-95	Dec-95	Mar-96	Jun-96	Jul-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99	May-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																													
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																													
Halogenated Non-Aromatic Hydrocarbons																													
Carbon Tetrachloride	0.5	<0.5	<5	<1	1.4	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<0.5	<5	<1	1.9	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<5	<1	0.61	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	1.6	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	36.0	<0.5	<0.5	<1	<1	1.6	<1	4.2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	13.0	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	1.2		<1	2.4	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.2			56.91					1.6		4.2																
Total Concentration of VOCs		1.2			56.91					1.6		4.2																

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	77-94-6 (well is on annual sampling)																						
		Jun-94*	(D)†	Sep-94	Dec-94*	Feb-95*	May-95*	Aug-95	Dec-95	Mar-96	Jun-96	(D)	Jul-96	Dec-96	Mar-97	Aug-97	Feb-98	Aug-98	Mar-99	Aug-00*	Aug-01	Aug-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Chloroform	100	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<3	<3	<0.5	<3
1,1-Dichloroethane	5	0.5	<5	<1	0.7	0.61	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Trichloroethene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Freon-113	1200	1.2		<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons		1.7			0.7	0.61																		
Total Concentration of VOCs		1.7			0.7	0.61																		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	77-97-9 (well is on annual sampling)													
		Aug-97	(D)*	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Mar-99	May-99	Aug-00*	Oct-01	Aug-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	0.67	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons			0.67												
Total Concentration of VOCs			0.67												

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	77-97-11 (well is on annual sampling)												
		Jul-97	(D)*	Dec-97	May-98*	Aug-98	Nov-98	Mar-99	May-99	Aug-00*	Aug-01	Aug-02	Jul-03*	Jul-04
Aromatic or Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Ethylbenzene	300	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<0.5	<1	<1	<1	2.2	<0.5	<3	<3	<0.5	<3
1,1-Dichloroethane	5	<1	0.51	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	0.67	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons			0.51						2.2				0.67	
Total Concentration of VOCs			0.51						2.2				0.67	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 4 Well

Constituent	MCL	78-97-20 (well is on annual sampling)													
		Oct-97	(D)*	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99	May-99	Sep-00	Sep-01	Aug-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5		<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	0.51	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	0.86	<1	<1	0.86	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	1.1	<1	<1	2.1	1.3	<1	1.9	2.6	1.4	1.1	1.1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.96			3.47	1.3		1.9	2.6	1.4	1.1	1.1		
Total Concentration of VOCs			1.96			3.47	1.3		1.9	2.6	1.4	1.1	1.1		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MW91-1 (well is on annual sampling)																		
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Aug-94	Feb-95*	Sep-95	Mar-96	Mar-97	Jun-97	May-98*	May-99	Aug-00*	Jul-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																				
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2	<0.5	<0.5	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2	<0.5	<0.5	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	1.6
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<1	<2	<1	<1	<2	<2	<2
Total Aromatic Hydrocarbons																				1.6
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2	<0.5	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons																				
Total Concentration of VOCs																				1.6

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

All analyses by LBNL EML unless otherwise noted

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MW91-2 (well is on semi-annual sampling)																															
		Nov-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Sep-94	Nov-94*	Feb-95*	Sep-95	(D)*	Mar-96	Aug-96	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Feb-01	Sep-01	Feb-02	Sep-02	Feb-03	Aug-03*	Nov-03	(D)*	Feb-04	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																																	
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<1	<2	<2
Total Aromatic Hydrocarbons																																	
Halogenated Non-Aromatic Hydrocarbons																																	
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<0.5	<3	<0.5	<3	<3
1,1-Dichloroethane	5	10.0	3.7	6.1	3.2	5.7	2.6	3.8	1.1	3.1	3.1	2.5	2.5	3.9	2.0	2.4	1.6	2.5	1.3	1.5	1.7	1.9	1.7	1.4	1.3	1.6	1.2	1.2	1.0	1.2	1.1#	1.3	1.2
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2
1,1-Dichloroethene	6	15.1	4.5	6.0	5.3	5.6	4.6	5.0	1.6	3.5	3.7	4.3	3.2	4.6	1.8	2.9	1.5	3.6	1.3	1.6	1.4	1.9	1.2	1.0	<1	1.3	1.1	1.1	0.81	<1	0.94#	<1	<1
cis-1,2-Dichloroethene	6	18.8	19.2	23.3	18.4	20.9	16.7	21.5	9.8	14.0	14.0	15.7	11.0	18.9	9.7	11.2	8.2	15.1	7.3	9.4	6.9	8.7	8.0	7.1	5.3	6.1	4.6	6.1	4.7	5.7	5.0#	6.1	6.1
trans-1,2-Dichloroethene	10	16.8	8.6	9.0	5.4	6.1	7.5	5.1	3.7	3.5	4.2	7.2	4.8	7.1	1.8	2.2	2.0	4.9	1.3	1.8	1.8	2.3	1.1	1.0	<1	<1	<1	<1	0.65	<1	<0.5	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	6.5	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	9.5	4.0	4.6	1.9	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	2.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.65	<1	<0.5	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1
Total Halogenated Hydrocarbon		60.7	36.0	44.4	32.3	38.3	31.4	35.4	16.2	24.1	25.0	29.7	21.5	43.6	15.3	18.7	13.3	26.1	11.2	14.3	11.8	18.4	12.0	10.5	6.6	9.0	6.9	8.4	17.3	10.9	11.6	9.3	7.3
Total Concentration of VOCs		60.7	36.0	44.4	32.3	38.3	31.4	35.4	16.2	24.1	25.0	29.7	21.5	43.6	15.3	18.7	13.3	26.1	11.2	14.3	11.8	18.4	12.0	10.5	6.6	9.0	6.9	8.4	17.3	10.9	11.6	9.3	7.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
#=surrogate recovery not within control limits

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	MW91-4 (well is on annual sampling)																				
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	May-95*	Sep-95	Dec-95†	(D)*	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Jun-97
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	25.6	22.3	6.7	3.6	52.9	12.9	<1	10.4	28.0	16.0	24.0	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
Ethylbenzene	300	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	1.1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<6	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons		25.6	22.3	6.7	3.6	52.9	12.9		10.4	29.1	16.0	24.0	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<5	5.4	2.2	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20	<6	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<5	<1	<1	<1	8.2	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<5	<5	<1	1.0	1.0	1.3	<1	<1	<1	0.52	0.61	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1
Freon-113	1200	<1	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5		<3	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<10	<3	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons			5.4	2.2	1.0	1.0	9.5				0.52	0.61										
Total Concentration of VOCs		25.6	27.7	8.9	4.6	53.9	22.4		10.4	29.1	16.52	24.61	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	MW91-4 (continued)															
		Sep-97	Dec-97*	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	Jun-99	Mar-00	Sep-00	Mar-01	Sep-01	Feb-02	Sep-02	Aug-03	Aug-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5	5.5	43.2	24.4	36.2	22.8	11.2	15.6
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5	5.5	43.2	24.4	36.2	22.8	11.2	15.6
Halogenated Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	3.6	<1	<1	1.9	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons												3.6			1.9		
Total Concentration of VOCs		47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5	5.5	46.8	24.4	36.2	24.7	11.2	15.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 3 Well

Constituent	MCL	MW91-5 (well is on annual sampling)																							
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Nov-94*	Mar-95*	(D)†	Aug-95	Feb-96	Jul-96	Dec-96	Feb-97	Aug-97	Aug-98	Sep-99	Jul-00	Aug-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	1.1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	1.4	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	1.3	<1	<1	<1	<1	<6.0	<1	<1	<1	<10	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			3.8																						1.1
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	5.4	1.5	1.3	1.2	1.7	<3.0	1.4	1.3	1.1	<5	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	1.0	<1	<1	<1	<1	<3.0	<1	0.52	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5		<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			6.4	1.5	1.3	1.2	1.7		1.4	1.82	1.1				1.1										
Total Concentration of VOCs			10.2	1.5	1.3	1.2	1.7		1.4	1.82	1.1				1.1										1.1

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Detected Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MWP-9																					
		Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96•	Mar-96•	Apr-96	May-96	(D)	Jul-96	Nov-96•	Dec-96
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	3.8	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	2.0	213.0	<1	<1	<1	<1	18.0	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	78.5	<1	<1	<1	<1	4.2	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																2.0	296.8					22.2	
Total Concentration of VOCs																2.0	296.8					22.2	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate Sample
• = Detections are due to cross contamination during sampling

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Detected Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MWP-9 (continued)																							
		Feb-97•	Feb-97•	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98	Aug-98	Nov-98	Jan-99	Apr-99	Aug-99	Jul-00	Jul-01	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Hydrocarbons																									
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	12.9	4.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	3.4	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		16.3	5.6																		1.1				
Total Concentration of VOCs		16.3	5.6																		1.1				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
• = Detections are due to cross contamination during sampling

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Detected Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MWP-10 (well is on annual sampling)																			
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Jan-95*	May-95*	Aug-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97
Aromatic or Non-Halogenated Hydrocarbons																					
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	0.82	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons										0.82											
Total Concentration of VOCs										0.82											

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 7-1 (Cont'd)
Support Services Area Groundwater Monitoring Well Results
Detected Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 5 Well

Constituent	MCL	MWP-10 (continued)													
		Nov-97	Feb-98	May-98	Aug-98	Nov-98	Jan-99	Apr-99	Aug-99	Jul-00	Oct-00	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons															
Total Concentration of VOCs															

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table 7-2
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB69-02-1A			SB69-02-1B			SB69-02-2A		SB69-02-2B		
		Nov-02	Feb-03	Aug-04*	Nov-02	Feb-03	Aug-04*	Feb-03	Aug-04*	Nov-02	Feb-03	Aug-04*
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
n-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Chlorobenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Ethylbenzene	300	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Isopropylbenzene		<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<0.5
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<5	<0.5	<5	<5	<0.5	<5	<0.5	<5	<5	<0.5
Naphthalene		<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<0.5
n-Propylbenzene		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Toluene	150	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Xylenes, total	1750	<2	<2	<1	<2	<2	<1	<2	<1	<2	<2	<1
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Chloroethane		<30	<30	<0.5	<30	<30	<0.5	<30	<0.5	<30	<30	<0.5
Chloroform	100	<3	<3	<0.5	<3	<3	<0.5	<3	<0.5	<3	<3	<0.5
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<0.5
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2	<2	<0.5
Tetrachloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
1,1,1-Trichloroethane	200	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Trichloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	0.5
Freon-113	1200	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Freon-123A		<1	<1		<1	<1		<1		<1	<1	
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<0.5
Total Halogenated Hydrocarbons												0.5
Total Concentration of VOCs												0.5

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(Concentrations in µg/L)

Constituent	MCL	SB69-02-3A		SB69-02-3B			SB69A-99-1						
		Feb-03	Aug-04*	Nov-02	Feb-03	Aug-04*	Oct-99	Nov-99	Nov-00	Mar-01	Oct-01	Mar-02	Sep-02*
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	1.2	<1	<1	1.1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chlorobenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<0.5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<0.5
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons										1.2			1.1
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Chloroethane		<30	<0.5	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<0.5
Chloroform	100	<3	<0.5	<3	<3	<0.5	<1	<1	<3	<3	<3	<3	<0.5
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	72.0	99.3	168.8	91.6	25.7	13.0	8.1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	1.1	2.0	1.7	<1	1.0	1.1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5
Freon-123A		<1		<1	<1		<1	<1	<1	<1	<1	<1	
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	1.6	2.4	29.9	26.9	39.4	32.0
Total Halogenated Hydrocarbons							72.0	102.0	173.2	123.2	52.6	53.4	41.2
Total Concentration of VOCs							72.0	102.0	173.2	124.4	52.6	53.4	42.3

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(Concentrations in µg/L)

Constituent	MCL	SB69A-99-1 (continued)									SB75-02-1		
		Mar-03	23-Jun-03	24-Jun-03	25-Jun-03	26-Jun-03	27-Jun-03*#	Aug-03	Mar-04	Aug-04*	Jul-02	Oct-02*	Nov-02
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	0.54	<1	<1	0.7	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Chlorobenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<0.5	<5	<5	<0.5	<5	<0.5	<5
Naphthalene		<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<1	<0.5	1.8	<1	<0.5	<1	<0.5	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<1	<2
Total Aromatic Hydrocarbons							0.54	1.8		0.7			
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Chloroethane		<30	<30	<30	<30	<30	<0.5	<30	<30	<0.5	<30	<0.5	<30
Chloroform	100	<3	<3	<3	<3	<3	<0.5	<3	<3	<0.5	7.8	5.6	9.2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	3.9	3.8	3.0
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.65	<1
cis-1,2-Dichloroethene	6	6.9	13.8	16.3	12.3	14.7	9.4	23.2	7.3	6.9	24.2	35.0	17.9
trans-1,2-Dichloroethene	10	<1	<1	1.1	<1	1.0	0.86	1.2	<1	0.76	<1	0.62	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<0.5	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<0.5	<1	1.9	<0.5	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	15.2	16.0	11.2
Freon-113	1200	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1
Freon-123A		<1	<1	<1	<1	<1		<1	<1		<1		<1
Vinyl Chloride	0.5	38.6	17.2	30.4	36.4	34.8	26.0	43.1	44.1	34.0	<1	<0.5	<1
Total Halogenated Hydrocarbons		45.5	31.0	47.8	48.7	50.5	36.26	67.5	53.3	41.66	51.1	61.7	41.3
Total Concentration of VOCs		45.5	31.0	47.8	48.7	50.5	36.80	69.3	53.3	42.36	51.1	61.7	41.3

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

= analyzed after holding time expired

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB75-02-1 (continued)										
		Feb-03	May-03	Sep-03	22-Dec-03*	16-Jan-04	20-Jan-04	27-Jan-04	03-Feb-04	09-Feb-04	23-Feb-04	18-Mar-04
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<0.5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroethane		<30	<30	<30	<0.5	<30	<30	<30	<30	<30	<30	<30
Chloroform	100	6.2	7.6	7.2	3.9	6.1	7.2	6.8	10.7	7.0	4.7	4.0
1,1-Dichloroethane	5	3.6	3.4	3.5	2.9	2.6	2.9	3.1	2.8	3.2	3.3	4.1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	0.53	<1	<1	<1	1.4	1.2	<1	<1
cis-1,2-Dichloroethene	6	44.7	40.3	52.0	45.0	42.5	42.0	58.9	36.3	56.4	71.0	76.7
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	12.4	11.3	12.9	12.0	10.7	9.8	12.2	9.1	11.2	14.5	16.9
Freon-113	1200	<1	<1	<1	<0.5	<2	<2	<2	<2	<2	<2	<2
Freon-123A		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		66.9	62.6	75.6	64.33	61.9	61.9	81.0	60.3	79.0	93.5	101.7
Total Concentration of VOCs		66.9	62.6	75.6	64.33	61.9	61.9	81.0	60.3	79.0	93.5	101.7

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB75-02-1 (continued)						SB75A-02-1A			SB75A-02-1B		
		06-Apr-04	20-Apr-04	13-May-04	25-Jun-04	Jul-04	Aug-04	Nov-02	Feb-03	Aug-04*	Nov-02	Feb-03	Aug-04*
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<0.5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30	<0.5
Chloroform	100	4.5	7.3	5.5	3.4	4.6	6.9	<3	<3	<0.5	<3	<3	<0.5
1,1-Dichloroethane	5	2.8	3.1	3.7	3.7	4.0	3.5	<1	<1	<0.5	<1	<1	<0.5
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5
1,1-Dichloroethene	6	<1	1.2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
cis-1,2-Dichloroethene	6	52.6	50.5	64.7	94.6	84.4	71.8	<1	<1	<0.5	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Trichloroethene	5	14.3	12.1	11.1	12.9	16.4	11.8	<1	<1	<0.5	<1	<1	<0.5
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Freon-123A		<1	<1	<1	<1	<1	<1	<1	<1		<2	<2	
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5
Total Halogenated Hydrocarbons		74.2	74.2	85.0	114.6	109.4	94.0						
Total Concentration of VOCs		74.2	74.2	85.0	114.6	109.4	94.0						

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	W76-97-3											
		Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00	Mar-01	Sep-01	Mar-02	Sep-02*	Sep-03	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13		<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<1	<1	<1	<1	<1	<1	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	1.0	<1	<1	<1	<1	1.6	<1	<1	0.52	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	3.2	1.3	2.3	<1	2.1	1.5	<1	1.2	1.2	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	14.9	34.9	17.6	26.1	14.9	14.9	24.6	15.4	30.6	19.0	20.4	14.2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A			<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons		14.9	40.2	18.9	28.4	14.9	17.0	27.7	15.4	31.8	20.7	20.4	14.2
Total Concentration of VOCs		14.9	40.2	18.9	28.4	14.9	17.0	27.7	15.4	31.8	20.7	20.4	14.2

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	W76-97-4 Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00	Mar-01	Sep-01	Mar-02	Sep-02*	Sep-03	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13		<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<1	<1	<1	<1	<1	<1	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	<1	6.8	<1	<1	<1	2.0	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	4.0	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A			<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons			10.8				2.0						
Total Concentration of VOCs			10.8				2.0						

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 7-2 (Cont'd)
Support Services Area Temporary Groundwater Sampling Point Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	W76-97-5											
		Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00	Mar-01	Sep-01	Mar-02	Sep-02*	Sep-03	Sep-04
Aromatic or Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether	13		<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	1.1	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons											1.1		
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroethane		<30	<30	<30	<30	<30	<30	<30	<30	<30	<0.5	<30	<30
Chloroform	100	<1	<1	<1	<1	<1	<1	<3	<3	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	<1	1.5	3.7	1.8	1.6	3.1	1.8	1.8	1.7	2.6	3.5	2.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	<1	1.2	<1	<1	5.7	<1	<1	<1	0.52	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-123A			<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons			1.5	4.9	1.8	1.6	8.8	1.8	1.8	1.7	3.12	3.5	2.0
Total Concentration of VOCs			1.5	4.9	1.8	1.6	8.8	1.8	1.8	1.7	4.22	3.5	2.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

* = Analysis by BC Laboratories

Table 8
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	MW62-B1A (well is on annual sampling)																							
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	Sep-95	Feb-96	Jul-96	Dec-96	Feb-97•	Feb-97	Aug-97	May-98*	Apr-99	Aug-00	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	0.53	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	2.7	<1	<1	<0.5	<0.5	<1	<1	<1	<1	16.3	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	1.2	<1	<1	<0.5	<0.5	<1	<1	<1	<1	3.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons							3.9									19.8			0.53						
Total Concentration of VOCs							3.9									19.8			0.53						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
• = Detections are due to cross contamination during sampling

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	MW62-B2 (well is on annual sampling)																									
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May-94	Sep-94	Dec-94*	Feb-95*	(D)†	Sep-95	Feb-96•	Mar-96•	Jul-96	Dec-96	Feb-97	Aug-97	Mar-98	Aug-98	Jan-99*	Aug-00	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.93	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						0.93					
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	57.7	9.0	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	17.2	1.1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														74.9	10.1												
Total Concentration of VOCs														74.9	10.1							0.93					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis
* = Analysis by BC Laboratories

† = Analysis by AEN
(D) = Duplicate sample
• = Detections are due to cross contamination during sampling

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	62-92-26 Oct-92	(D)†	Dec-92	Mar-93	Jun-93	Aug-93	Oct-93	Mar-94	Aug-94	(D)*	Feb-95*	Aug-95	Feb-96	Jul-96	Feb-97	Feb-97	May-97	Nov-97	May-98*	Jan-99*	Apr-99	Aug-99•
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
n-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
sec-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
ter-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Ethylbenzene	300	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Isopropylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<2
p-Isopropyltoluene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Naphthalene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<2
n-Propylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Toluene	150	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
1,2,4-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
1,3,5-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Xylenes, total	1750	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	<2	<2	<2	<2	<2	<2	<1	<1	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Chloroform	100	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	5.4
1,1-Dichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
1,2-Dichloroethane	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<0.5	<0.5	<2	<2
1,1-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Methylene Chloride	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	1.1	23.2	5.2	<1	<1	<0.5	<0.5	<1	<1
1,1,1-Trichloroethane	200	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
1,1,2-Trichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Trichloroethene	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	5.1	1.4	<1	<1	<0.5	<0.5	<1	<1
Freon-113	1200	<1		<0.6	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Vinyl Chloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1
Total Halogenated Hydrocarbons															1.1	28.3	6.6						5.4
Total Concentration of VOCs															1.1	28.3	6.6						5.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
† = Analysis by Chromalab, EPA Method 8240

< = Less than Quantitation Limit
= Compound not included in analysis
• = Detection is most likely due to cross contamination during sampling

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	62-92-26 (continued)																				
		Aug-99	Oct-99	Jan-00	May-00	Aug-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Jul-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Hydrocarbons																						
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons										1.5												
Total Concentration of VOCs										1.5												

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	62-92-27 Oct-92	(D)†	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	May-95*	Aug-95	Nov-95	Feb-96	May-96	Jul-96	Dec-96	Feb-97	Feb-97	May-97	Feb-98
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
ter-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
Isopropylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<2	<5	<1	<1	<1	<1	5.3	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	11.2	7.7	<1	<1
1,1,1-Trichloroethane	200	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<2	<5	<1	<1	<1	<1	2.1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	2.7	2.1	<1	<1
Freon-113	1200	<1		<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons									7.4									1.8			13.9	9.8		
Total Concentration of VOCs									7.4									1.8			13.9	9.8		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by Chromalab, EPA Method 8240
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	62-92-27 (continued)																						
		Aug-98	Jan-99*	Aug-99	Oct-99	Jan-00	May-00	Aug-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	Apr-02	Jul-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																								
Total Concentration of VOCs																								

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 13 Well

Constituent	MCL	62-95-16 (well is on annual sampling)																	
		Mar-96	Jun-96	Aug-96	Dec-96	Feb-97	May-97	Aug-97	Nov-97	Mar-98	May-98*	Aug-98	Nov-98	Jan-99	May-99	Aug-00	Aug-01*	Aug-02	Jul-03
Aromatic or Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
n-Butylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
sec-Butylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
ter-Butylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Ethylbenzene	300	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Naphthalene		<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<3	<0.5	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Total Halogenated Hydrocarbons																			
Total Concentration of VOCs																			

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	70-92-7 (well is on annual sampling)																												
		Dec-92	Mar-93	Jun-93	Aug-93	Oct-93	Mar-94	Jun-94	Aug-94	(D)	Dec-94*	Feb-95*	(D)†	Jun-95*	Sep-95	Dec-95	Mar-96	Jun-96	Jul-96	Dec-96	Mar-97	Aug-97	Feb-98	Aug-98	Jan-99	Jul-00*	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																														
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																														
Halogenated Non-Aromatic Hydrocarbons																														
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	1.5	1.1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	3.6	<1	2.9	2.8	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5		<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons							3.6		4.4	3.9																				
Total Concentration of VOCs							3.6		4.4	3.9																				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

(D) = Duplicate sample
* = Analysis by BC Laboratories
† = Analysis by AEN

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	70A-96-13 (well is on annual sampling)															
		Jan-97	(D)*	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Aug-00	Jul-01	Jul-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																	
Total Concentration of VOCs																	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	70A-96-14 (well is on annual sampling)															
		Jan-97	(D)*	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Aug-00	Jul-01	Jul-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.5
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	1.5
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																	
Total Concentration of VOCs																	1.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 11 Well

Constituent	MCL	74-94-7																					
		Jun-94*	(D)†	Aug-94	Dec-94*	Feb-95*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Dec-96*	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<0.5	<5	<1	<0.5	0.63	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	1.6	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	1.0	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons						3.23																	
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<0.5	0.87	<0.5	<1	<1	2.5	2.9	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<0.5		<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons						0.87				2.5	2.9												
Total Concentration of VOCs						4.10				2.5	2.9												

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 11 Well

Constituent	MCL	74-94-7 (continued)																				
		Aug-99	Oct-99	Jan-00	May-00	Aug-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																						
Total Concentration of VOCs																						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 11 Well

Constituent	MCL	74-94-8 Jun-94*	(D)†	Aug-94	Sep-94	Dec-94*	Feb-95*	May-95*	Sep-95	Nov-95	Mar-96	May-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	Jun-98	Aug-98	Nov-98	Jan-99*
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
n-Butylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
sec-Butylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
ter-Butylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Ethylbenzene	300	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Isopropylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
p-Isopropyltoluene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Naphthalene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
n-Propylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Toluene	150	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trichlorobenzene	5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2,4-Trimethylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,3,5-Trimethylbenzene		<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Chloroform	100	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,2-Dichloroethane	0.5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
1,1-Dichloroethene	6	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,1-Trichloroethane	200	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Trichloroethene	5	<0.5	<5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Freon-113	1200	1.8		<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Vinyl Chloride	0.5	<0.5	<10	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Total Halogenated Hydrocarbons		1.8																					
Total Concentration of VOCs		1.8																					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 11 Well

Constituent	MCL	74-94-8 (continued) May-99	Aug-99	Nov-99	Jan-00	May-00	Aug-00	Nov-00	Feb-01	May-01	Jul-01*	Nov-01	Jan-02	Apr-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	1.8	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			1.8				
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																							
Total Concentration of VOCs																			1.8				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 11 Well

Constituent	MCL	74-95-6 (well is on annual sampling)															
		Aug-95	Aug-95†	(S)*	Aug-97	Nov-97	Mar-98	Jun-98	Aug-98	Nov-98	Feb-99	May-99	Aug-00	Aug-01*	Aug-02	Jul-03	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<1	<5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<1	<5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<10	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<1	<5	<0.5	3.2	2.1	<1	<1	12.0	<1	3.6	<1	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<5	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<1	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<5		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons					3.2	2.1			12.0		3.6						
Total Concentration of VOCs					3.2	2.1			12.0		3.6						

TQL = Target Quantitation Limits
MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

† = Analysis by AEN
* = Analysis by BC Laboratories
(S) = Split sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 6 Well

Constituent	MCL	88-92-4 (well is on annual sampling)																												
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	Oct-94*	Dec-94*	(D)*	Feb-95*	Jun-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Dec-96	Mar-97	Aug-97	Feb-98	Aug-98	Jan-99	Jul-00*	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic and Non-Halogenated Hydrocarbons																														
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																														
Halogenated Non-Aromatic Hydrocarbons																														
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	1.8	1.9	1.2	<1	<1	<1	<1	<0.5	0.56	0.55	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	6.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	2.4	1.7	1.0	<1	<1	<1	<1	<0.5	0.53	0.54	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<5	2.5	4.0	2.7	2.5	1.5	1.1	<1	1.2	1.93	2.0	1.1	0.73	1.0	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.63	<1	<1	1.0	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons			6.7	7.6	4.9	2.5	1.5	1.1	6.5	1.2	3.02	3.09	1.1	0.73	1.0	1.3										0.63			1.0	
Total Concentration of VOCs			6.7	7.6	4.9	2.5	1.5	1.1	6.5	1.2	3.02	3.09	1.1	0.73	1.0	1.3										0.63			1.0	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 6 Well

Constituent	MCL	88-93-11A Apr-94	(D)	Apr-94	Sep-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99
Aromatic and Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	2.0	1.7	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	1.0	<1	1.7	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	18.9	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	1.3	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		21.9	1.7	1.7		1.3																	
Total Concentration of VOCs		21.9	1.7	1.7		1.3																	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

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(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 6 Well

Constituent	MCL	88-93-11A (continued)																					
		May-99	Aug-99	Nov-99	Feb-00	May-00	Jul-00	Nov-00	Jan-01	May-01	Jul-01*	Nov-01	Jan-02	Apr-02	Jul-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic and Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																							
Total Concentration of VOCs																							

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 6 Well

Constituent	MCL	88-93-13 (well is on annual sampling)																						
		Mar-94	(D)*	Jun-94	Aug-94	Dec-94*	Feb-95*	Jun-95*	Sep-95	Nov-95	Mar-96	Jun-96	Aug-96	Dec-96*	Feb-97	May-97	Feb-98	Aug-98	Jan-99	Jul-00	Jul-01*	Jul-02	Jul-03	Jul-04
Aromatic and Non-Halogenated Hydrocarbons																								
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	300	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	4.4	2.9	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons		4.4	2.9																					
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<1	<0.5	3.2	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<3	<0.5	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	1.6	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<1	<0.5	2.0	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<1	<0.5	7.1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons				13.9																				
Total Concentration of VOCs		4.4	2.9	13.9																				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 6 Well

Constituent	MCL	88-96-4 (well is on annual sampling)																			
		Jul-96	(D)*	Jul-96	Aug-96	Dec-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99	Jul-00*	Jul-01	Aug-02	Jul-03	Jul-04
Aromatic and Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	300	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1.0	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	1.1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons															1.1						
Total Concentration of VOCs															1.1						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Offsite Well

Constituent	MCL	CD-92-28																									
		Jan-93	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	(D)*	Jun-94	Aug-94	Dec-94*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96•	Dec-96	Feb-97•	Feb-97	May-97	Jul-97	Nov-97	Feb-98	May-98
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	2.7	<1	1.3	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																			4.2		1.3						
Total Concentration of VOCs																			4.2		1.3						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
• = Detections are due to cross contamination during sampling

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Offsite Well

Constituent	MCL	CD-92-28 (continued)																									
		Aug-98	Oct-98	Jan-99	Apr-99	Aug-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01*	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Feb-04	May-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																											
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																											
Halogenated Non-Aromatic Hydrocarbons																											
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<0.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																									1.4		
Total Concentration of VOCs																									1.4		

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	OW3-225																							
		Dec-92	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	(D)*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97•	Feb-97	Apr-97	Jul-97	Nov-97	Jan-98	May-98
Aromatic or Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	201.0	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons								201.0																	
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	30.1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	3.3	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	0.51	0.57	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons									0.51	0.57									33.4						
Total Concentration of VOCs								201.0	0.51	0.57									33.4						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
• = Detections are due to cross contamination during sampling

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	OW3-225 (continued)																								
		Aug-98	Nov-98	Jan-99	Apr-99	Aug-99	Oct-99	Jan-00	May-00	Aug-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Jul-02	Oct-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																										
Total Concentration of VOCs																										

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	MWP-2																								
		Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94	May-94	Sep-94	Nov-94*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96	May-96	Jul-96	Jul-96	Dec-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	1.1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	5.9	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				1.1														5.9								
Total Concentration of VOCs				1.1														5.9								

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

(D) = Duplicate sample
* = Analysis by BC Laboratories

Table 8 (Cont'd)
Outlying Areas Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)
Area 8 Well

Constituent	MCL	MWP-2 (continued)																								
		Aug-98	Oct-98	Jan-99	Apr-99	Aug-99	Oct-99	Jan-00	May-00	Jul-00	Oct-00	Jan-01	May-01	Jul-01	Nov-01	Jan-02	May-02	Aug-02	Oct-02	Jan-03	Apr-03	Jul-03	Nov-03	Jan-04	May-04	Jul-04
Aromatic or Non-Halogenated Hydrocarbons																										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										
Halogenated Non-Aromatic Hydrocarbons																										
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																										
Total Concentration of VOCs																										

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 9
LBNL Hydrauger Monitoring Results
Volatile Organic Compounds - EPA Method 8260
FY 2004: October 2003 through September 2004
(Concentrations in µg/L)

Constituent	MCL	37-01-01 Mar-04*	51-01-01 Mar-04*	51-01-02 Mar-04*	51-01-03 Mar-04*	51-01-03A Mar-04*	51-01-04 Mar-04*
Aromatic or Non-Halogenated Hydrocarbons							
Benzene	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ter-Butylbenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl tert-Butyl Ether	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	150	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes, total	1750	<1	<1	<1	<1	<1	<1
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	100	1.8	4.6	<0.5	<0.5	<0.5	<0.5
Chloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	5	<0.5	<0.5	0.65	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	6	<0.5	<0.5	1.1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	6	<0.5	<0.5	0.61	2.0	1.8	1.6
trans-1,2-Dichloroethene	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	5	<0.5	<0.5	<0.5	3.5	3.4	1.6
1,1,1-Trichloroethane	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	5	1.4	0.78	3.0	1.8	1.8	1.4
Freon-11		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Freon-113	1200	<0.5	7.7	2.1	<0.5	<0.5	<0.5
Vinyl Chloride	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Halogenated Hydrocarbons		3.2	13.08	7.46	7.3	7.0	4.6
Total Concentration of VOCs		3.2	13.08	7.46	7.3	7.0	4.6

MCL = Maximum contaminant level for drinking water

* = All analyses by BC Laboratories

< = Less than Quantitation Limit

Table 10
Volatile Organic Compounds Detected in Groundwater Above MCLs
EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

	Halogenated VOCs												Aromatic VOCs
	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	METHYLENE CHLORIDE	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	VINYL CHLORIDE	CARBON TET	BENZENE
MCLs	5	0.5	6	6	10	5	5	1	5	5	0.5	0.5	1
Building 71 VOC Plume - Building 71B Lobe													
MW90-3				11.2					7.9	10.1			
MW71B-99-3R				50.5					104.0	257.0			
SB71B-99-1				22.1						17.4			
SB71B-03-1				139.0					286.0	39.7			
SB71B-03-2				65.7					2,930	130.0			
SB71B-04-1				46.0					448.0	170.0	5.3		
Building 51/64 VOC Plume													
MW51B-93-18A	7.2			16.0						73.8			
MW51-96-15										6.5			
MW51-96-16	20.7			455.0	42.4				10.6	130.0	23.6		
MW51-96-17				54.0	31.6					10.4	21.5		
MW51-96-18	65.2		28.8						488.0	95.8		1.8	
MW51-97-3	15.8		31.3	18.3						8.2	2.8		
MW51-97-12	6.0		7.8	30.2							1.6		
MW51-97-13	7.7										6.0		
MW51-00-8	5.4												
MW51-00-9				15.3							1.1		
MW51-00-10	5.8										1.6		
SB51-96-6				8.4							13.5		
SB51-98-1	8.6			88.7						12.7	2.3		
SB51-98-6									6.4	6.2			
SB51-04-1									9.8	5.3			
SB64-98-8	2,970		727.0						441.0	759.0			
SB64-98-12	208.0		34.8	8.3					74.5	75.1			
SB64-98-13	47.1									22.8			
SB64-98-17	763.0	3.0	56.0							19.0	22.6		
SB64-99-4	4,030		347.0						71.1	277.0	209.0		
SB64-99-5	156.0		84.2							17.0			
SB64-99-6			7.4										
SB64-00-1	4,960		497.0						141.0	444.0	249.0		
SB64-00-2	270.0	8.6	889.0						92.3	242.0			
SB64-02-1A	7,550	63.0	1,680	60.9			12.2	4.8	156.0	550.0	8.9	15.9	
SB64-02-1B	3,620		703.0							454.0	205.0		

Table 10 (Cont'd)
Volatile Organic Compounds Detected in Groundwater Above MCLs
EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

	Halogenated VOCs												Aromatic VOCs
	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	METHYLENE CHLORIDE	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	VINYL CHLORIDE	CARBON TET	BENZENE
MCLs	5	0.5	6	6	10	5	5	1	5	5	0.5	0.5	1
SB64-02-1C	900.0	9.1	197.0	96.4						16.7	40.8		
SB64-02-1D	241.0	3.5	53.1	30.0						9.9	25.2		
SB64-02-1E	145.0		15.6								10.8		
SB64-02-1F	91.1		10.5								5.1		
SB64-02-2A	1,130									206.0			
SB64-02-2B	634.0	3.8	84.4	38.4		8.4				16.8	3.4		
SB64-02-2C	150.0		57.0	30.7						7.2	2.8		
SB64-02-2D	144.0		52.2	17.8						7.7	1.7		
SB64-02-2E	90.2		38.8	10.4									
SB64-02-2F	48.1												
SB64-03-1A	47.0												
SB64-03-1B	637.0	7.6	24.8							33.7			
SB64-03-4	29.8												
SB64-03-5	15.3		23.9						10.7	80.7			
SB64-03-6			12.6	17.9					14.3	252.0			
SB64-03-8	41.0		23.1						25.8	22.5			
SB64-03-13	23.0		7.8							10.0			
EW64-00-1	236.0		49.9						510.0	138.0		1.7	
EW64-03-1	318.0	2.9	7.1							11.7			
Building 51L Plume													
SB51L-98-1A	39.9		7.0	214.0	47.0				7.5	166.0			
SB51L-02-3	114.0		34.7	1,220	183.0				27.5	541.0	161.0		
SB51L-03-1	126.0		36.4	1,170	53.2					107.0	382.0		
SB51L-03-2	60.6		9.0	601.0	645.0					71.6	1,350		
EW51L-99-1				13.7						49.2			
EW51L-00-1	48.0			1,360					17.0	488.0	103.0		
Old Town VOC Plume - Building 7 Lobe													
MW90-2									11.7				
MW91-8									11.9	5.5		2.5	
MW5-93-10										5.4			
MW6-92-17										15.2			
MW7-92-19				6.4					66.5	14.1			
MW7-94-3			12.2						99.0	43.3		2.6	

Table 10 (Cont'd)
Volatile Organic Compounds Detected in Groundwater Above MCLs
EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

	Halogenated VOCs												Aromatic VOCs
	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	METHYLENE CHLORIDE	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	VINYL CHLORIDE	CARBON TET	BENZENE
MCLs	5	0.5	6	6	10	5	5	1	5	5	0.5	0.5	1
MW7-95-22				9.0					370.0	135.0		4.3	
MW7-95-23									790.0	940.0		32.0	
MW7-00-4													3.7
MW7B-95-21				13.1					1,170	137.0		2.8	
MW7B-95-24				33.0					653.0	149.0		7.7	
MW16-94-13									32.0	11.6			
MW53-92-21-130'													1.1
MW53-93-16-42'									9.3				
MW53-93-16-69'									25.8	9.8		1.9	
MW53-95-12									9.9	6.4			
MW53-96-1			8.1	14.6					140.0	55.8		13.9	
MW58-93-3	8.2		22.1	6.1					36.1	27.6	1.9		
MW58-95-18			10.4						7.0	11.4			
MW58-95-19				143.0					24.0	124.0			
MW58-95-20									6.5				
MW58-96-11									1,270	1,020			
MW58-00-12									46,600	24,200		1,570	
MW58A-94-14	7.9		22.2	40.5							2.8		
SB16-98-1										13.6			
SB53-96-3									1,200	261.0			
SB58-96-2				25.4					628.0	281.0			
SB58-97-1				18.5					23.5	22.3			
SB58-97-2				60.7							2.8		
SB58-02-1	27.8		110.0	16.4					122.0	105.0			
SB58-02-2	16.7		31.4	17.1					105.0	86.4			
EW7-96-1									1,390	65.4		10.9	
EW7-96-2									61.3	15.2			
EW7-96-4R									526.0	70.0			
EW7-03-1									493.0	182.0		13.6	
EW7-03-2				6.7					502.0	192.0		12.6	
EW7-03-3				105.0					5,790	1,740		124.0	

Table 10 (Cont'd)
Volatile Organic Compounds Detected in Groundwater Above MCLs
EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

	Halogenated VOCs												Aromatic VOCs
	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	METHYLENE CHLORIDE	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	VINYL CHLORIDE	CARBON TET	BENZENE
MCLs	5	0.5	6	6	10	5	5	1	5	5	0.5	0.5	1
DPE7-03-1									5,890	139.0			
DPE7-03-2				9.1					208.0	160.0			
DPE7-03-3									4,000	295.0			
EW58E-98-1				17.9					465.0	377.0		15.7	
EW58E-98-2				14.5					134.0	130.0		3.0	
EW58E-98-3				13.6					109.0	99.7		2.5	
EW58E-98-4				9.7					87.9	57.5			
EW58E-98-5				55.1					364.0	539.0		10.9	
EW58E-98-6				50.2					136.0	159.0		1.3	
EW58E-98-7				81.4					296.0	193.0		1.5	
EW58E-98-8				156.0					427.0	441.0		6.9	
EW58-02-1			13.4	54.9					1,400	437.0		16.6	
IW7-02-1									15.2	8.3			
IW7-02-6				20.8					783.0	132.0		21.9	
MP7-99-1B									34,500	34,600		2,400	
MP7-99-2B				34.0					15,600	12,800		570.0	
Old Town VOC Plume - Building 25A Lobe													
MW16-95-3										15.1			
MW25-95-5										5.3		1.0	
MW25-98-10										7.4		1.4	
MW25A-95-15			78.7							152.0			
MW25A-98-1										48.6			
MW25A-98-3										42.9			
MW25A-98-7										21.2			
MW25A-99-2			12.2							241.0			
MW26-92-11									8.5				
SB25A-96-3			7.3							28.3			
Old Town VOC Plume - Building 52 Lobe													
MW91-9									7.7				
MW27-92-20									8.6	9.4		3.2	
MW46-93-12									7.3	7.2		1.2	
MW52-93-14									16.9			2.5	

Table 10 (Cont'd)
Volatile Organic Compounds Detected in Groundwater Above MCLs
EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

	Halogenated VOCs												Aromatic VOCs
	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	METHYLENE CHLORIDE	1,1,2-TCA	1,1,2,2-PCA	PCE	TCE	VINYL CHLORIDE	CARBON TET	BENZENE
MCLs	5	0.5	6	6	10	5	5	1	5	5	0.5	0.5	1
MW52-95-2B									6.5	5.3		2.1	
MW52-98-9									18.3	12.2		4.8	
MW52A-98-8B										12.3			
MW52B-95-13									11.3			3.9	
MW53-93-9									12.4	7.6		2.9	
MW53-93-17									28.2	13.5		5.3	
SI15-102				11.5					154.0	72.9		1.0	
SB5A-98-1									32.7				
SB44-98-1										15.2			
SB52A-98-1				16.9					15.9	46.5		5.8	
SB58-01-02	7.7		22.0	9.0					24.7	35.3			
SB58-95-2	8.6		19.9						24.0	21.8	1.9		
SB58-96-1				78.5					199.0	164.0			
SB58-98-1				7.2									
Building 69 Area of Groundwater Contamination													
MW69-97-8				9.0									
SB69A-99-1				6.9							34.0		
Building 75A Area of Groundwater Contamination													
MW91-4													15.6
MW75A-00-7													54.5
SB75-02-1				84.4						16.4			
Building 76 VOC Plume													
MW76-1				6.7									
MW76-98-21										17.4			
W76-97-3										14.2			
Building 77 Area of Groundwater Contamination													
MW91-2				6.1									
Building 7 Diesel Plume													
MW6-92-17										15.2			
Other Locations													
SB51A-01-8B				22.2							215.0		

MCL - Maximum contaminant level for drinking water (determined by California DTSC)

Note: where duplicate or split samples were collected, or more than one sample was collected during the quarter, the highest concentrations are shown

Table 11
Groundwater Monitoring Results
Concentration of Total Petroleum Hydrocarbons
LUFT Modified Method 8015, or TPH-FI EPA 8015M
(All Concentrations in µg/L)
FY 2004: October 2003 through September 2004

RFI Unit	Area	Well No.	Analysis	FY 2004 Qtr 1 Oct-Dec	FY 2004 Qtr 2 Jan-Mar	FY 2004 Qtr 3 Apr-Jun	FY 2004 Qtr 4 Jul-Sep
Monitoring Wells and Temporary Sampling Points							
AOC 2-1 (2)(3)	2	7-92-16	TPH-K	**1,500**	**280**	**790**	**170**
		6-93-4	TPH-K		**640**		**240**
		6-95-14	TPH-K				<50
		SB7-97-1	TPH-FI				**170** (Hydraulic/Motor Oil)
	7	SB6-96-2	TPH-FI				**590** (TPH-Diesel)
	2	MW90-2	TPH-FI				**150** (Crude/Waste Oil)
SWMU 2-2 (3)	2	52B-95-13	TPH-D				**93**
	2	53-95-12	TPH-FI				**510** (Crude/Waste Oil)
		58-96-11	TPH-FI				ND
	3	MW91-4	TPH-FI				**360** (Crude/Waste Oil)
		69-97-8	TPH-FI				**430** (Crude/Waste Oil)
		75-97-5	TPH-FI				**170** (Crude/Waste Oil)
AOC 4-1 (1), AOC 4-2 (1)	4	MW76-1	TPH-D		**190**		**290**
			TPH-G		<50		<50
		76-93-7	TPH-D		<50		<50
			TPH-G		<50		<50
		W76-97-3	TPH-D				**150**
			TPH-G				<50
		W76-97-4	TPH-D				**260**
			TPH-G				**90**
		W76-97-5	TPH-D				**110**
			TPH-G				**99**
SWMU 4-6	4	76-93-6	TPH-D		**56**		**110**
			TPH-G		<50		<50
AOC 6-1 (1)	6	88-93-13	TPH-D				**410**
	7	46-92-9	TPH-FI				ND
		58-93-3	TPH-D				**280**
	10	16-94-13	TPH-D				**59**
AOC 11-1 (1)	11	74-92-13	TPH-D				**210**
		83-92-14	TPH-D				**1400**
		74-94-7	TPH-D				**88**
		74-94-8	TPH-D				**160**
		74-95-6	TPH-D				**440**
		83-95-7	TPH-D				**450**
AOC 13-2 (1)	13	MW62-B1A	TPH-D				<50
		MW62-B2	TPH-D				**53**
AOC 14-7 (3)	14	37-94-9	TPH-D				<50

Table 11 (Cont'd)
Groundwater Monitoring Results
Concentration of Total Petroleum Hydrocarbons
LUFT Modified Method 8015, or TPH-FI EPA 8015M
(All Concentrations in µg/L)
FY 2004: October 2003 through September 2004

RFI Unit	Area	Well No.	Analysis	FY 2004 Qtr 1 Oct-Dec	FY 2004 Qtr 2 Jan-Mar	FY 2004 Qtr 3 Apr-Jun	FY 2004 Qtr 4 Jul-Sep
Quality Assurance Samples							
		Equipment/	TPH-D				<50
			TPH-K		<50		
		Rinse Blank	TPH-FI				**130** (Crude/Waste Oil)

	= Not Sampled
<	= Not detected
ND	= No TPH-FI compounds detected

Analysis for TPH-FI, included: Light Naptha, Aviation Gas, Stoddard Solvent, Heavy Naptha, Gasoline, JP4, JP5, JP6, JP8, Kerosene, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40

(1)Former abandoned UST site approved for No Further Action (NFA) by the City of Berkeley

(2)Former abandoned UST site approved for No Further Investigation (NFI) by the City of Berkeley

(3)Unit recommended not to be retained in the Corrective Measures Study based on results of the Human Health Risk Assessmen

Table 12
Concentration of Tritium in Groundwater
(Concentrations in pCi/L)
MCL = 20,000 pCi/L
October 2003 through September 2004

Area	Well No.	FY2004 Qtr 1 Oct-Dec	FY2004 Qtr 2 Jan-Mar	FY2004 Qtr 3 Apr-Jun	FY2004 Qtr 4 Jul-Sep
Groundwater Monitoring Wells					
1	MW90-3		<300		<300
	MW90-4				<300
	MW90-5				<300
	46A-92-15		<300		<300
	71-93-1				<300
	71-95-8				<300
	71-95-9	<300	<300	<300	556
	71B-98-13	<300	<300	<300	<300
	71B-99-3R	<300	<300	<300	<300
3	MW91-3		<300		<300
	MW91-4		<300		492
	MW91-5		1,189		1,624
	MW91-6		2,116		2,528
	69A-92-22		<300		<300
	75-92-23		1,577		1,469
	75B-92-24		1,049		2,212
	75-96-20		<300		<300
	75-97-5	21,827 20,700 (D)	23,126 21,900 (D)	21,801 18,900 (D)	21,211 20,400 (D)
	75-97-6		<300		<300
	75-97-7		417		383
	69-97-8	<300	<300	<300	<300
	69-97-21		<300		<300
	75-98-14	5,850 5,420 (D)	5,085	9,342 7,750 (D)	7,615 7,260 (D)
	75-98-15	<300	<300	<300	<300
	75-99-4	<300	<300	<300	<300
	75-99-6	1,611	2,425	2,342	2,898
	75-99-7	8,130 7,100 (D)	6,751	7,014 6,110 (D)	6,463
	75-99-8	<300	<300	<300	<300
	75A-00-7	<300	<300	<300	<300
	69A-00-11	<300	<300	<300	<300

Table 12 (Cont'd)
Concentration of Tritium in Groundwater
(Concentrations in pCi/L)
MCL = 20,000 pCi/L
October 2003 through September 2004

Area	Well No.	FY2004 Qtr 1 Oct-Dec	FY2004 Qtr 2 Jan-Mar	FY2004 Qtr 3 Apr-Jun	FY2004 Qtr 4 Jul-Sep
Groundwater Monitoring Wells					
4	MW76-1		<300		<300
	76-93-6		4,495		3,789
	76-93-7		<300		<300
	78-97-20		1,830		1,610
	76-98-21	<300	<300	<300	<300
	76-98-22	<300	<300	<300	<300
5	MW91-1		<300		<300
	MW91-2		598		812
	MWP-9	<300	<300	<300	<300
	MWP-10	<300	<300	<300	<300
	77-92-10		<300		<300
	61-92-12	<300	<300	<300	<300
	77-93-8		<300		<300
	77-94-5		<300		<300
	77-94-6		9,134 9,000 (D)		8,924 8,170 (D)
	77-97-9		10,349 9,390 (D)		10,750 9,570 (D)
	77-97-11		5,415		5,568
	31-97-17		747		2,006
	31-97-18	<300	<300	<300	<300
	31-98-17	<300	<300	<300	<300
6	88-93-11A	<300	<300	<300	<300
8	MWP-2	<300	<300	<300	<300
	OW3-225	<300	<300	<300	<300
10	MWP-8	<300	<300	<300	<300
	25-95-27	<300	<300	<300	<300
	52-94-10				<300
	52-95-2B				<300
11	74-94-7	<300	<300	<300	<300
	74-94-8	<300	<300	<300	<300

Table 12 (Cont'd)
Concentration of Tritium in Groundwater
(Concentrations in pCi/L)
MCL = 20,000 pCi/L
October 2003 through September 2004

Area	Well No.	FY2004 Qtr 1 Oct-Dec	FY2004 Qtr 2 Jan-Mar	FY2004 Qtr 3 Apr-Jun	FY2004 Qtr 4 Jul-Sep
Groundwater Monitoring Wells					
13	62-92-26	<300	<300	<300	<300
	62-92-27	<300	<300	<300	<300
14	MWP-4	<300	<300	<300	<300
	MWP-5	<300	<300	<300	<300
	MWP-6	<300	<300	<300	<300
	MWP-7	<300	<300	<300	<300
	37-92-6				<300
	37-92-18A				<300
	37-94-9				<300
15	MWP-1	<300	<300	<300	<300
OS	CD-92-28	<300	<300	<300	<300
Temporary Groundwater Sampling Points					
3	SB69-02-1A		1,176		1,062
	SB69-02-1B		<300		<300
	SB69-02-2A		<300		<300
	SB69-02-2B		<300		<300
	SB69-02-3A		<300		<300
	SB69-02-3B		<300		<300
	SB69A-99-1		576		574
	SB69A-00-1				
	SB75-02-1		576		750
	SB75A-02-1A		438		537
	SB75A-02-1B		<300		<300
5	SB31-02-1	1,144	684	1,016	1,193
	SB31-02-2	343	455	<300	<300
	SB31-02-4	2,840	2,607	2,520	2,640
	SB31-02-5	2,819	2,277	2,841	2,540
	SB31-02-6	<300	<300	<300	<300
	SB31-02-7	<300	<300	<300	<300
	SB31-03-1	2,811	2,656	3,116	3,367
	SB31-03-2	4,337	2,711	4,262	3,935
	SB31-03-3	2,340	1,857	1,880	

Table 12 (Cont'd)
Concentration of Tritium in Groundwater
(Concentrations in pCi/L)
MCL = 20,000 pCi/L
October 2003 through September 2004

Area	Well No.	FY2004 Qtr 1 Oct-Dec	FY2004 Qtr 2 Jan-Mar	FY2004 Qtr 3 Apr-Jun	FY2004 Qtr 4 Jul-Sep
Temporary Groundwater Sampling Points					
5	SB31-03-4	2,672	2,854	2,682	2,743
	SB77-02-1	<300	<300	<300	<300
Slope Stability/Indicator Facilities					
5	SSW17-130		578*		771*
	SSW19-130		479*		422*
	SSW20-130		1,109*		1,433*
	SSW21-130		<300*		<300*
Hydraugers					
5	77-01-01		4,812		
	77-02-05		2,835		
Quality Assurance Samples					
	Rinse Blank	<300	<300	<300	<300
		<300	<300	<300	<300
			<300		<300
			<300		<300
					<300

MCL = Maximum contaminant level for drinking water determined by California DTSC

	= Not Sampled
<	= Less than minimum detectable activity (MDA)

* = Grab sample
(D) = Duplicate sample

Table 13
CONCENTRATION OF METALS IN GROUNDWATER
FY 2004: October 2003 through September 2004
(All Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Fe
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)	
			Background**	<2	53(56)*	540	<1	<1	25		9.3	28	<2	<0.2	85(156)*	18	12	<10	<1	62	31	
AREA	**WELL NO.**	**LAB**	**DATE**																			
1	71B-98-13	BC	Dec-03	<2	11	810	<0.2	0.3	**100**		130	<10	<20	<0.2	<50	**690**	<200	<10	<4	360	45	66,000
		BC	Feb-04	<2	19	**1200**	<0.2	<0.2	32		200	<10	<8	<0.2	<50	**860**	<8	<10	<4	66	32	100,000
		BC	Apr-04	<10	25	970	<5	<5	16		160	<10	<5	<0.2	<50	**730**	<5	<10	<5	25	31	85,000
		BC	Jul-04	<2	64	660	<1	<1	<10		76	<10	<1	<0.2	<50	**280**	3.1	<10	<1	16	19	83,000
	71B-99-3R	BC	May-04	<2	7.3	610	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	1.2	<10	<1	13	<10	1,500
	71B-00-2	BC	Jul-04		30										110							
2	MW1-220	BC	Jul-04		33.6																	
	7-95-23	BC	Aug-04		5.0																	
	7-00-4	BC	Jul-04	<2	**69**	52	<1	<1	<10		<50	<10	<1	<0.2	500	<10	**53**	<10	<1	32	15	
	7B-95-21	BC	Aug-04	<2	2.0	45	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	39	13	
		BC	(D)	<2	2.7	46	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	40	16	
	7B-95-24	BC	Aug-04											0.77								
3	MW91-4	BC	Aug-04												120							
	69-97-8	BC	Aug-04			850																
	69-97-21	BC	Aug-04														<10					
	69A-00-11	BC	Jul-04	<2	<2	37	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	13	
	75-97-5	BC	Aug-04			750																
	75-98-15	BC	Jul-04		31										110							
	75-99-4	BC	Jul-04		45										130							
	75-99-8	BC	Jul-04		**66**										120							

Table 13 (Cont'd)
CONCENTRATION OF METALS IN GROUNDWATER
FY 2004: October 2003 through September 2004
(All Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Fe
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)	
			Background**	<2	53(56)*	540	<1	<1	25		9.3	28	<2	<0.2	85(156)*	18	12	<10	<1	62	31	
AREA	**WELL NO.**	**LAB**	**DATE**																			
3	75A-00-7	BC	Aug-04	<2	36	110	<1	<5	<10		<50	<10	<1	<0.2	64	<10	43	<10	<1	32	28	
4	MW76-1	BC	Aug-04						<3							9.2						
5	MW91-1	BC	Jul-04	<2	11	26	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	3.8	<10	<1	<10	28	
	61-92-12	BC	Jul-04		5										<50							
	77-92-10	BC	Jul-04		33										210							
	77-94-5	BC	Jul-04	<2	13	23	<1	<1	<10		<50	<10	<1	<0.2	160	<10	15	<10	<1	17	14	
7	46-92-9	BC	Jul-04		38										360		10					
	58A-00-3	BC	Jul-04	<2	42	28	<1	<1	<10		<50	<10	<1	<0.2	260	<10	4	<10	<1	13	<10	
9	51-92-2	BC	Jul-04												280							
	51-00-1	BC	Jul-04							<2					52							
	51-00-9	BC	Aug-04	<2	38	93	<1	<1	<10		<50	<10	<1	<0.2	590	<10	<2	<10	<1	<10	12	
	51-00-10	BC	Aug-04	<2	13	74	<1	<1	<10		<50	<10	<1	<0.2	170	<10	2.2	<10	<1	<10	16	
	51A-01-10A	BC	Jul-04	<2	<2	17	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	4	<10	<1	<10	16	
		BC	(D)	<2	<2	16	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	3.6	<10	<1	<10	14	
	51A-01-11	BC	Jul-04	<2	<2	100	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	4	<10	<1	<10	69	
	51B-93-18A	BC	Aug-04		**53**									<0.2								
	51L-01-1A	BC	Jul-04	<2	25	82	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	20	<10	<1	20	<10	
	51L-01-1B	BC	Jul-04	<2	<2	42	<1	<1	<10		<50	<10	1.4	<0.2	<50	<10	<2	<10	<1	<10	34	
	51L-01-3	BC	Jul-04	<2	2.4	56	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	20	
	51L-01-4	BC	Jul-04	<2	<2	18	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	30	

Table 13 (Cont'd)
CONCENTRATION OF METALS IN GROUNDWATER
FY 2004: October 2003 through September 2004
(All Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Fe
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)	
			Background**	<2	53(56)*	540	<1	<1	25		9.3	28	<2	<0.2	85(156)*	18	12	<10	<1	62	31	
AREA	**WELL NO.**	**LAB**	**DATE**																			
9	51L-01-5A	BC	Jul-04	<2	9.9	130	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	29	<10	<1	25	36	
	51L-01-5B	BC	Jul-04	<2	13	74	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	2.3	<10	<1	<10	13	
	51L-01-6	BC	Jul-04	<2	11	44	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	29	<10	<1	21	51	
	51L-01-7	BC	Jul-04	<2	9.2	26	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	5	<10	<1	<10	15	
	51L-02-1	BC	Aug-04	<2	<2	57	<1	<1	<10		<50	<10	1.6	<0.2	<50	<10	<2	<10	<1	<10	38	
	64-97-1	BC	Aug-04		**110**										120							
	64-97-2	BC	Aug-04														**82**					
10	4-96-2	BC	Jul-04		**56**																	
	25A-95-4	BC	Jul-04		28																	
	25-95-5	BC	Jul-04						8.3													
	25-98-10	BC	Jul-04						5.6													
	25A-99-2	BC	Aug-04	<2	<2	310	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	15	24	
	25A-00-5	BC	Jul-04	<2	**64**	13	<1	<1	<10		<50	<10	<1	<0.2	55	<10	4.4	<10	<1	15	18	
	52A-98-8B	BC	Aug-04			150																
	52A-00-6	BC	Jul-04	<2	**65**	<10	<1	<1	<10		<50	<10	<1	<0.2	800	<10	<2	<10	<1	<10	10	
14	37-92-5	BC	Jul-04		25.2																	
	37-92-18A	BC	Jul-04	4	**73**																	
OS	CD-92-28	BC	Jul-04	<2	3	1000	<0.4	<0.2	<10		<50	<10	<8	<0.2	<50	<10	<2	<10	<1	<10	<10	

Table 13 (Cont'd)
CONCENTRATION OF METALS IN GROUNDWATER
FY 2004: October 2003 through September 2004
(All Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Fe
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)	
			Background**	<2	53(56)*	540	<1	<1	25		9.3	28	<2	<0.2	85(156)*	18	12	<10	<1	62	31	
Temporary Groundwater Sampling Points																						
2	SB17-02-1	BC	Sep-04	<2	2.5	260	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	2.1	<1	<1	<10	14	
3	SB75-02-1	BC	Dec-03	<4	<2	37	<0.2	<0.2	<10		<50	<10	<8	<0.2	<50	<10	<8	<10	<4	22	13	3,500
		BC	Jan-04	<2	<1	<1	<1	<1	19		<1	<2	<1		<1	<2	<1	<1	<1	6.5	9	
		BC	Mar-04	<2	5.3	42	<1	<1	<3		<1	2.9	<1	0.31	2.2	5.9	13	<1	<1	<3	21	3700
		BC	May-04	<2	6.8	19	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	19	<10	<1	18	13	550
		BC	Jul-04	<2	10	43	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	31	<10	<1	14	<10	1,500
9	SB51-96-20R	BC	Sep-04							2												
	SB51-96-22	BC	Sep-04							<2												
Other Locations																						
2	MP7-99-1B	BC	Aug-04	<2	4.6	49	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	16	48	
		BC	(D)	<2	5.1	52	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	2.4	<10	<1	16	43	
	MP7-99-2B	BC	Aug-04	<2	<2	88	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	17	13	
Quality Assurance Samples																						
	Field Blank	BC	Jul-04	<2	<2	<10	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	17	
		BC	Aug-04	<2	<2	<10	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	18	
		BC	Aug-04	<2	<2	<10	<1	<1	<10		<50	<10	<1	<0.2	<50	<10	<2	<10	<1	<10	20	

MCL: Maximum contaminant level for drinking water (determined by California DTSC)
BC: Analysis by BC Analytical laboratory
(D) = Duplicate sample

<	= Not detected
	= Not analyzed
82	= concentration above MCL

(a): secondary MCL
(b): action level
NS: Not Specified

*Background concentrations in parentheses represent values for wells screened in the Orinda Formation
**Berkeley Lab Maximum Background Level (LBNL 2002)

Table 14
Groundwater Monitoring Well and Temporary Sampling Point Results Polychlorinated Biphenyl Compounds FY 2004: October 2003 through September 2004
(Concentrations in µg/L)

Area	Location	Lab	Date	PCBs (8082)
2	52B-95-13	BC	Aug-04	<0.2
3	75-98-14	BC	Aug-04	<0.2
	75-98-15	BC	Jul-04	<0.2
	75-99-4	BC	Jul-04	<0.2
	75-99-6	BC	Jul-04	<0.2
	75-99-7	BC	Aug-04	<0.2
	75-99-8	BC	Jul-04	<0.2
9	51-00-9	BC	Dec-03	<0.2
		BC	Feb-04	<0.2
		BC	May-04	<0.2
		BC	Aug-04	<0.2
	51-00-10	BC	Dec-03	<0.2
		BC	Feb-04	<0.2
		BC	May-04	<0.2
		BC	Aug-04	<0.2

Temporary Groundwater Sampling Points

9	SB51-98-1	BC	Feb-04	<0.2
		BC	Aug-04	<0.2
	SB51-98-2	BC	Feb-04	<0.2
	SB51-98-4	BC	Feb-04	<0.2
		BC	Aug-04	<0.2
	SB51-98-6	BC	Feb-04	<0.2
		BC	Aug-04	<0.2
10	SB16-97-11	BC	Mar-04	<0.2
	SB16-98-1	BC	Sep-04	<0.2

< = Less than Quantitation Limit

BC = Analysis by BC Laboratories

Table 15a
Creek Sampling Results
VOCs and Metals
4th Quarter FY 2004

Location	Date	Lab	8260 µg/L	Metals																
				Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se*	Ag	Tl	V	Zn
North Fork Strawberry Creek																				
Upstream	Sep-04	BC	LT	<2	2.2	78	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	2.7	<1	<1	16	16
Downstream			LT	<2	2.2	72	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	2.6	<1	<1	13	22
Botanical Garden Creek	Sep-04	BC	LT	<2	<2	110	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	<2	<1	<1	15	63
Chicken Creek Upstream	Sep-04	BC	LT	<2	<2	71	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	<2	<1	<1	32	17
Downstream			LT	<2	<2	100	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	<2	<1	<1	16	23
No Name Creek	Sep-04	BC	LT	<2	3.9	70	<1	<1	<10	<50	<10	<1	<0.2	<50	<10	<2	<1	<1	<10	22

BC = Analysis by BC Laboratories

*Matrix spike recovery not within control limits

LT = Less than quantitation limit
< = Less than Reporting Limit

Table 15b
Tritium Sampling Results from Creeks
4th Quarter FY 2004

Location		Lab	Date	Tritium
North Fork Strawberry Creek	Upstream	LBL	Sep-04	<300
	Downstream	LBL	Sep-04	<300
Chicken Creek	Upstream	LBL	Sep-04	<300
	Downstream	LBL	Sep-04	<300
Botanical Garden Creek		LBL	Sep-04	<300
No Name Creek		LBL	Sep-04	<300

LBL = Analysis by LBNL Radiation Analytical Measurement Laboratory

Table 16
Soil Sampling Results (mg/kg)
Organic Compounds
4th Quarter FY 2004

		Excavated				VOCs				PCBs
						Cis-1,2-DCE	Trans-1,2-DCE	PCE	TCE	
					PRG	43	69	5.7	2.8	0.22
Location	Sample ID		Depth	Date	Lab					
Bevalac Area										
SS-71BExc-04-W1	SS-71BExc-04-W1-3		3	Jul-04	BC	<0.005	<0.005	0.09	<0.005	
SS-71BExc-04-W2	SS-71BExc-04-W2-3		3			<0.005	<0.005	0.08	<0.005	
SS-71BExc-04-W3	SS-71BExc-04-W3-3		3			<0.005	<0.005	0.024	<0.005	
SS-71BExc-04-W4	SS-71BExc-04-W4-3		3			<0.005	<0.005	0.1	<0.005	
SS-71BExc-04-W5	SS-71BExc-04-W5-3		3			<0.005	<0.005	0.21	<0.005	
SS-71BExc-04-W6	SS-71BExc-04-W6-3		3			<0.005	<0.005	0.15	<0.005	
SS-71BExc-04-W7	SS-71BExc-04-W7-3		3			<0.005	<0.005	0.22	<0.005	
SS-71BExc-04-F1	SS-71BExc-04-F1-8		8			<0.005	0.0075	<0.005	<0.005	
	SS-71BExc-04-F1-9		9			<0.005	0.0069	<0.005	<0.005	
SS-71BExc-04-F2	SS-71BExc-04-F2-8		8			<0.005	<0.005	0.0052	<0.005	
	SS-71BExc-04-F2-9		9			<0.005	<0.005	<0.005	<0.005	
SS-71BExc-04-F3	SS-71BExc-04-F3-8		8			0.012	<0.005	0.22	0.076	
	SS-71BExc-04-F3-9		9			<0.005	<0.005	<0.005	<0.005	
SS-71BExc-04-F4	SS-71BExc-04-F4-7	X	7			<0.005	<0.005	<0.005	<0.005	
	SS-71BExc-04-F4-8		8			<0.005	<0.005	<0.005	<0.005	
SS-71BExc-04-F5	SS-71BExc-04-F5-7	X	7			<0.005	<0.005	0.061	<0.005	
	SS-71BExc-04-F5-8		8			<0.005	<0.005	0.023	<0.005	
SS-71BExc-04-F6	SS-71BExc-04-F6-7	X	7			<0.005	<0.005	0.29	0.0052	
	SS-71BExc-04-F6-8		8			<0.005	<0.005	<0.005	0.0070	
Support Services Area										
SB76-04-1	BS-SB76-04-1-1		1	Sep-04	BC	<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-5.1		5.1			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-7.2		7.2			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-8.6		8.6			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-10.3		10.3			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-15.6		15.6			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-1-21		21			<0.005	<0.005	<0.005	<0.005	
SB76-04-3	BS-SB76-04-3-1.5		1.5			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-3.5		3.5			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-5.6		5.6			<0.005	<0.005	<0.005	<0.005	

Table 16 (Cont'd)
Soil Sampling Results (mg/kg)
Organic Compounds
4th Quarter FY 2004

		Excavated			VOCs				PCBs
					Cis-1,2-DCE	Trans-1,2-DCE	PCE	TCE	
				PRG	43	69	5.7	2.8	0.22
Location	Sample ID	Depth	Date	Lab					
SB76-04-3	BS-SB76-04-3-8	8	Sep-04	BC	<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-9.3	9.3			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-15.8	15.8			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-21	21			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-24.4	24.4			<0.005	<0.005	<0.005	<0.005	
	BS-SB76-04-3-29.5	29.5			<0.005	<0.005	<0.005	<0.005	
Outlying Areas									
SB88-04-19	BS-SB88-04-19-8	8	Jul-04	BC					<0.01

BC = Analysis by BC Laboratories

< = Not detected above reporting limit

= Not analyzed

X = indicates sample location has been excavated

Table 17
LBNL Groundwater Quality Control Samples
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

Constituent	MCL	Equipment (Rinseate) Blanks													
		Jul-04	Jul-04	Jul-04	Jul-04	Jul-04	Jul-04	Jul-04	Aug-04	Aug-04	Aug-04	Aug-04	Aug-04	Aug-04	Sep-04
Aromatic and Non-Halogenated Hydrocarbons															
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons															
Total Concentration of VOCs															

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table 17 (Cont'd)
LBNL Groundwater Quality Control Samples
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(concentrations in µg/L)

Constituent	MCL	Trip Blanks						
		Jul-04	Jul-04	Jul-04	Aug-04	Aug-04	Sep-04	Sep-04
Aromatic and Non-Halogenated Hydrocarbons								
Benzene	1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	300	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons								
Halogenated Non-Aromatic Hydrocarbons								
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<3	<3	<3	<3	<3	<3	<3
Dibromochloromethane		<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons								
Total Concentration of VOCs								

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table 18
Soil Water Sampling Results from Lysimeters
Volatile Organic Compounds - EPA Method 8260
4th Quarter FY 2004
(Concentrations in µg/L)

Constituent	MCL	SB75-96-2-14' Jul-04	SB75-96-2-14' Aug-04	SB75-96-2-20' Jul-04
Aromatic or Non-Halogenated Hydrocarbons				
Benzene	1	<1	<1	<1
n-Butylbenzene		<1	<1	<1
sec-Butylbenzene		<1	<1	<1
ter-Butylbenzene		<1	<1	<1
Chlorobenzene		<1	<1	<1
Ethylbenzene	300	<1	<1	<1
Isopropylbenzene		<2	<2	<2
p-Isopropyltoluene		<1	<1	<1
Methyl tert-Butyl Ether	13	<5	<5	<5
Naphthalene		<2	<2	<2
n-Propylbenzene		<1	<1	<1
Toluene	150	<1	<1	<1
Xylenes, total	1750	<2	<2	<2
Total Aromatic Hydrocarbons				
Halogenated Non-Aromatic Hydrocarbons				
Bromodichloromethane		<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1
Chloroform	100	<30	<30	<30
Chloroethane		<3	<3	<3
1,1-Dichloroethane	5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	24.2
trans-1,2-Dichloroethene	10	<1	<1	<1
Methylene Chloride	5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2
Tetrachloroethene	5	1.7	3.1	1.7
1,1,1-Trichloroethane	200	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1
Trichloroethene	5	<1	<1	<1
Freon-11		<2	<2	<2
Freon-113	1200	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1
Total Halogenated Hydrocarbons		1.7	3.1	25.9
Total Concentration of VOCs		1.7	3.1	25.9

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted