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Table B1-1
Old Town Area RCRA SWMUs, AOCs and Other Investigation Areas

LBNL Unit Number	Unit Name	Current Status	Status Approval Date	Module Section or RFI Report Where Unit is Described
Units Described in This Report				***Module Section***
SWMU 2-1	B7 Former Plating Shop	NFI	9/30/1998 (DTSC, 1998)	B3.1
SWMU 2-2	Abandoned B52B Above Ground Liquid Waste Storage Tank	NFI	9/30/1998 (DTSC, 1998)	B3.2
SWMU 2-3	B17 Former Scrap Yard and Drum Storage Area	NFI	9/30/1998 (DTSC, 1998)	B3.3
SWMU 7-5	B58 Sumps	NFA	8/25/1997 (DTSC, 1997)	B3.4
SWMU 10-4	B16 Former Waste Accumulation Area	NFI	9/30/1998 (DTSC, 1998)	B3.5
SWMU 10-10	B25 Plating Shop Floor Drains	NFI	9/30/1998 (DTSC, 1998)	B3.6
AOC 2-1	B7E Former Diesel (Kerosene) UST	NFI	4/9/1999 (COB, 1999)	B3.7
AOC 2-4	Old Town Groundwater Solvent Plume	(a)		B3.14 & B4.3
AOC 2-5	B7 Sump	NFI	9/30/1998 (DTSC, 1998)	B3.8
AOC 7-1	B46 Former Scrap Yard Area	NFA	5/18/1995 (DTSC, 1995)	B3.9
AOC 7-6	B58 Former Hazardous Material Storage Area	NFI	8/25/1997 (DTSC, 1997)	B3.10
AOC 10-2	B52 Former Hazardous Materials Storage Area	NFI	9/30/1998 (DTSC, 1998)	B3.11
AOC 10-3	B25A Sanitary Sewer	NFA	2/15/2000 (DTSC, 2000a)	B3.12
AOC 10-5	Solvent Contaminated Groundwater in Area 10	(a)		B4.3
AOC 14-5	Well MWP-7 Groundwater Contamination	(a)		B4.3
AOC 14-6	B10/80 Sanitary Sewers	NFA	9/30/1998 (DTSC, 1998)	B3.13
(c)	Slope West of Building 53			B3.15
Units Described in Prior Reports				***Report***
SWMU 2-4	B53 Present and Former Waste Accumulation Area #1	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 2-5	B53 Waste Accumulation Area #2	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 7-1	B58 Inactive Underground Rinseate Tank	NFA	7/29/1996 (COB, 1996a)	LBNI, 1994l
SWMU 7-2	B58 Acid Dip Sink	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 7-3	B58 Collection Trench	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 7-4	B58 Waste Accumulation Area	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 10-5	B16 Present Waste Accumulation Area	NFA	8/25/1997 (DTSC, 1997)	LBNL, 1995k
SWMU 10-6	B25 Waste Water Treatment Facility	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 10-7	B25 Copper Purification Chamber	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 10-8	B25 Waste Accumulation Area	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 10-9	B25 Plating Shop Floor and Sump	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 14-1	B2 Acid Waste Neutralization Unit	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 14-2	B2 Temporary Waste Accumulation Unit	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 14-3	B10 Silver Recovery Unit #1	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 14-4	B10 Silver Recovery Unit #2	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
AOC 2-2	B7 Former Hazardous Waste Storage Area	NFI	8/25/1997 (DTSC, 1997)	LBNL, 1995k
AOC 2-3	B53 Present and Former Hazardous Materials Storage Area	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 7-2	B46 Transformer	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 7-3	B46 Hazardous Materials Storage Area	NFI	7/5/1996 (DTSC, 1996b)	LBNL, 1995k
AOC 7-4	B47 Former Photographic Lab	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 7-5	B58 Transformer Oil UST	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 7-7	B58 Transformers	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 10-1	B16 Transformers	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 10-4	B25 Sanitary Sewer	NFA	9/30/1998 (DTSC, 1998)	LBNL, 1995k
AOC 14-1	B2 Diesel USTs	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1994l
AOC 14-2	B6 Present and Former Transformers	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 14-3	B10 Photographic Laboratories	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 14-4	B80 Photographic Laboratory	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 14-7	B37 Proposed Electrical Substation	NFI	6/16/1994 (DTSC, 1994b)	LBNL, 1994k

NFI = No Further Investigation Status. Unit will be included in the site wide risk assessment.
NFA = No Further Action Status. Unit has been approved for exclusion from any additional RCRA corrective action process requirements.

(a) = NFA or NFI status is not applicable to groundwater AOCs.
(b) = Area where soil samples were collected during the RFI that was not designated a SWMU or AOC.

Note: Radiological SWMUs and AOCs are not included in this table.

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SWMU 2-1: Former Building 7 Plating Shop																					
SS7N-1-0 X	0	Oct-92	C	<1	8.0	100	0.25	<0.05	75		17	23	22	0.11	<0.25	57	<0.5	59	<2	54	140
SS7N-2-0 X	0			<1	14	120	0.27	17	110		13	125	140	1.3	<0.25	52	<0.5	1.4	<2	38	160
SS7N-3-0 X	0			1.5	14	96	0.2	<0.05	22		11	46	15	0.6	<0.25	31	4.9		<2	30	70
SS-10-95-7BS-1 X		Oct-95	LBNL					11	70.9			186									1150
SS-10-95-7BS-2 X								8.2	68			126									94.7
SS-10-95-7BS-3 X								**230**	**4250**			1180									724
SS-7BTrench-1-0.5 X	0.5	Apr-96	CLS	<6	<0.8	92	<0.5	**62**	110		18	580	140	0.69	<2.5	120	<0.5	8.8	<4	55	110
SS-7BTrench-1-4 X	4			<6	<0.8	110	<0.5	<0.5	75		16	12	<5	<0.05	<2.5	40	<0.5	<1	<4	72	35
SS-7BTrench-2-0.5 X	0.5			<6	<0.8	120	<0.5	**53**	140		18	700	200	0.39	<2.5	150	<0.5	6.9	<4	69	940
SS-7BTrench-2-4 X	4			<6	<0.8	130	<0.5	3.5	88		14	290	28	<0.05	<2.5	66	<0.5	2.2	<4	72	380
SS-7BTrench-3-0.5 X	0.5			<6	<0.8	120	<0.5	1.4	82		19	34	11	0.17	<2.5	44	<0.5	<1	<4	78	440
SS-7BTrench-3-4 X	4			<6	<0.8	130	<0.5	<0.5	86		20	39	11	<0.05	<2.5	44	<0.5	<1	<4	76	79
SS-7BNE-96-1-0.5	0.5	Jun-96	CLS	<25	<2.5	159	<2.5	<2.5	87		16	31	17	0.22	<12.5	61	<2.5	<5	<25	62	70
SS-7BNE-96-1-2	2			<25	<2.5	147	<2.5	<2.5	100		20	22	<12.5	<0.2	<12.5	84	<2.5	<5	<25	78	43
SS-7BNE-96-2-1 X	1			<10	2.4	137	<1	<1	85		20	26	17	<0.2	<5	69	<1	<2	<10	74	53
SS-7BNE-96-2-2 X	2			<10	2.7	157	<1	1	101		24	25	<5	<0.2	<5	92	1.6	<2	<10	84	46
SS-7BE-96-3-1 X	1	Jun-96	CLS	<10	2.8	159	<1	12	95		18	76	58	1.2	<5	90	2.1	4	<10	57	171
SS-7BE-96-3-2 X	2			<10	2.1	127	<1	<1	83		19	36	<5	<0.2	<5	72	1.4	<2	<10	68	54
SS-7BE-96-4-1 X	1			<10	2.9	122	<1	1.0	122		15	33	<5	<0.2	<5	77	1.6	<2	<10	77	53
SS-7BE-96-4-2 X	2			<10	2.9	137	<1	<1	104		19	31	<5	<0.2	<5	80	1.4	<2	<10	83	53
SS-7BS-96-1-0.5 X	0.5	Jun-96	CLS	<10	4.4	246	<1	<1	60	<1.0	14	1610	163	0.29	<5	95	<1	9.3	<10	44	137
SS-7BS-96-1-1.5 X	1.5			<10	5	177	<1	1.2	73	<1.0	16	632	312	0.72	<5	72	1.5	2.7	<10	58	185
SS-7BS-96-1-2.5 X	2.5	Jul-96	BC	<10	3.7	183	<1	12	92	<1.0	18	77	29	0.59	<5	80	2	5.5	<10	65	308
SS-7BS-96-2-0.5 X	0.5	Jun-96	CLS	<25	15	134	6.4	36	165	<1.0	35	**22,100**	**2130**	0.76	<12.5	228	3.8	43	<25	40	2910
SS-7BS-96-2-1.5 X	1.5			<10	2.9	193	<1	<1	74	<1.0	12	363	39	0.31	<5	56	1.4	8.5	<10	68	155
SS-7BS-96-3-0.5 X	0.5			<10	3.2	166	1.2	**53**	83	<1.0	23	**6270**	**602**	0.38	<5	109	2	7.7	<10	69	1190
SS-7BS-96-3-1.5 X	1.5			<10	4	173	<1	3.1	51	<1.0	13	290	233	0.85	<5	70	1.1	<2	<10	36	288
SS-7BS-96-3-2.75 X	2.75	Jul-96	BC	<25	6.7	202	<2.5	**45**	58	<1.0	14	408	**870**	0.34	<12.5	74	<2.5	<2	<25	40	317
SS-7BS-96-3-4 X	4			<10	1.8	117	<1	**81**	78	<1.0	16	213	18	0.76	<5	54	<1	33	<10	60	202
SS-7BS-96-4-0.5 X	0.5	Jun-96	CLS	<10	2.9	160	<1	10	70	<1.0	20	1670	127	0.34	8.5	64	1.5	5.8	<10	64	613
SS-7BS-96-4-1.5 X	1.5			<10	2.7	114	<1	**53**	206	<1.0	15	988	94	0.57	<5	151	1.8	3.2	<10	50	1420

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS-7BS-96-4-3 X	3.0	Jul-96	BC	<10	2.6	126	<1	**169**	109	<1.0	11	215	49	0.51	<5	94	1.4	13	<10	64	645
SS-7BS-96-5-0.5 X	0.5	Jun-96	CLS	<10	2.6	147	<1	9.8	70	<1.0	19	918	**11,400**	0.44	5.4	51	1.2	4.1	<10	65	911
SS-7BS-96-5-1.5 X	1.5			<50	<5	118	<5	**63**	174	**15.9**	<25	1950	272	<0.2	<25	344	<5	20	<25	67	909
SS-7BS-96-5-3.1 X	3.1	Jul-96	BC	<10	4	194	<1	**78**	62	<1.0	13	163	36	1.4	<5	82	1.4	10	<10	48	146
SS-7BS-96-5-3.9	3.9			<10	2.4	140	<1	**242**	78	<1.0	13	203	31	0.72	<5	90	1.1	7.6	<10	54	324
SS-7BW-96-6-0.5 X	0.5	Jun-96	CLS	<10	2.7	120	<1	4.3	174	<1.0	24	**7390**	**415**	0.36	<5	164	1.1	<2	<10	70	3700
SS-7BW-96-6-1.5 X	1.5			<10	1.1	150	<1	<1	85	<1.0	24	34	5.2	<0.2	<5	35	1.8	<2	<10	84	60
BS-SB7PI-96-1-1 X	1.0	Sep-96	BC	<10	2.0	152	<1	<1	87	<0.2	25	23	14	<0.2	<5	51	<1	<2	<10	87	52
BS-SB7PI-96-1-2.5 X	2.5			<10	2.1	122	<1	<1	96	<0.2	19	41	13	<0.2	<5	82	<1	<2	<10	76	56
BS-SB7PI-96-1-5	5			<10	1.8	124	<1	<1	95	<0.2	20	27	7.7	<0.2	<5	62	<1	<2	<10	84	57
BS-SB7PI-96-1-10	10			<10	<1	68	<1	<1	75	<0.2	18	13	5.5	<0.2	<5	33	<1	<2	<10	44	59
BS-SB7PI-96-1-15	15			<10	<1	74	<1	<1	68	<0.2	19	16	5.5	<0.2	<5	35	<1	<2	<10	51	57
BS-SB7PI-96-2-1 X	1.0			<10	<1	129	<1	<1	94	<0.2	13	183	7.7	<0.2	<5	35	<1	5.8	<10	89	55
BS-SB7PI-96-2-2.5 X	2.5			<20	<2	83	<2	<2	104	<1.0	19	17	<10	<0.2	<10	43	<2	<4	<20	61	58
BS-SB7PI-96-2-5	5			<20	<2	92	<2	<2	95	<1.0	20	30	<10	<0.2	<10	39	<2	<4	<20	59	72
BS-SB7PI-96-2-10	10			<10	<1	60	<1	<1	67	<0.2	18	24	5.0	<0.2	<5	31	<1	<2	<10	51	56
BS-SB7PI-96-2-15	15			<20	<2	62	<2	<2	68	<1.0	21	90	<10	<0.2	<10	37	<2	<4	<20	72	100
BS-SB7PI-96-3-1 X	1.0			<10	1.4	140	<1	<1	88	<0.2	18	38	12	<0.2	<5	41	<1	<2	<10	85	58
BS-SB7PI-96-3-2.5 X	2.5			<10	2.0	134	<1	<1	103	<0.2	19	46	14	<0.2	<5	80	<1	<2	<10	79	62
BS-SB7PI-96-3-5	5			<10	1.2	89	<1	<1	87	<0.2	19	34	<5	<0.2	<5	36	3.5	<2	<10	53	57
BS-SB7PI-96-3-10	10			<10	1.2	69	<1	<1	70	<0.2	20	101	<5	<0.2	<5	37	3.8	<2	<10	51	93
BS-SB7PI-96-3-15	15			<10	1.0	46	<1	<1	66	<0.2	18	28	<5	<0.2	<5	37	3.3	<2	<10	47	59
BS-SB7PI-96-4-1 X	1.0			<10	1.6	125	<1	<1	80	<0.2	16	42	<5	<0.2	<5	33	3.6	<2	<10	77	67
BS-SB7PI-96-4-2.5 X	2.5			<10	3.2	123	<1	<1	88	<0.2	21	27	<5	<0.2	<5	55	3.4	<2	<10	76	55
BS-SB7PI-96-4-5	5			<10	1.2	76	<1	<1	93	<0.2	17	17	<5	<0.2	<5	42	3.7	<2	<10	54	52
BS-SB7PI-96-4-10	10			<10	<1	43	<1	<1	75	<0.2	21	20	<5	<0.2	<5	29	3.5	<2	<10	62	58
BS-SB7PI-96-5-1 X	1.0			<100	<10	161	<10	**1690**	170	<1.0	<50	**28,400**	**2010**	0.69	<50	317	<10	34	<100	61	197
BS-SB7PI-96-5-2 X	2.0			<50	5.0	151	<5	**439**	94	<0.2	<25	**15,300**	280	6.6	<25	215	7.0	46	<50	65	2190
BS-SB7PI-96-6-1 X	1.0			<10	2.8	123	<1	4.0	79	<0.2	16	2610	125	0.31	<5	48	3.5	<2	<10	63	990
BS-SB7PI-96-6-2.5 X	2.5			<10	2.3	119	<1	<1	87	<0.2	18	34	<5	<0.2	<5	40	3.6	<2	<10	85	52
BS-SB7PI-96-6-5 X	5			<10	1.7	119	<1	<1	78	<0.2	17	49	7.2	<0.2	<5	40	3.2	<2	<10	69	66
BS-SB7PI-96-6-10	10			<10	1.0	57	<1	<1	83	<1.0	21	37	<5	<0.2	<5	45	3.2	<2	<10	81	69
BS-SB7PI-96-6-15	15			<10	<1	49	<1	<1	68	<1.0	16	25	<5	<0.2	<5	29	2.7	<2	<10	45	53
BS-SB7PI-96-7-1 X	1.0			<50	7.6	133	<5	**38**	96	<0.2	<25	**10,900**	**460**	0.42	<25	108	5.5	27	<50	67	1740
BS-SB7PI-96-7-2 X	2.0			<20	3.2	154	<2	**109**	72	<0.2	19	2030	**3920**	0.28	92	80	3.7	5.0	<20	58	1820

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB7Pl-96-8-1 X	1.0	Sep-96	BC	<25	<2.5	98	<2.5	<2.5	70	<1.0	607	1500	65	0.51	<12.5	72	3.3	13	<25	57	676
BS-SB7Pl-96-8-2.5 X	2.5			<25	<2.5	136	<2.5	<2.5	92	<0.2	24	23	<12.5	<0.2	<12.5	50	3.2	<5	<25	85	49
BS-SB7Pl-96-8-5	5			<25	<2.5	142	<2.5	<2.5	97	<0.2	23	32	<12.5	<0.2	<12.5	66	3.1	<5	<25	79	54
BS-SB7Pl-96-8-10	10			<25	<2.5	42	<2.5	<2.5	73	<0.2	18	17	<12.5	<0.2	<12.5	35	3.7	<5	<25	54	61
BS-SB7Pl-96-8-15	15			<10	<1	60	<1	<1	83	<1.0	20	32	<5	<0.2	<5	36	3.1	<2	<10	72	61
BS-SB7Pl-96-9-1 X	1			<20	3.3	156	<2	30	138	<0.2	19	1670	**5710**	1.0	<10	121	4.5	7.0	<20	51	994
BS-SB7Pl-96-9-2 X	2			<20	3.9	146	<2	**515**	**831**	<0.2	<10	**3000**	**415**	5.8	23	486	5.2	114	<20	57	1370
BS-SB7Pl-96-10-1 X	1			<10	2.3	102	<1	21	82	<0.2	54	1900	137	0.23	<5	65	2.9	11	<10	58	1190
BS-SB7Pl-96-10A-5 X	5			<10	2.3	111	<1	<1	79	<0.2	18	40	<5	<0.2	<5	38	3.3	<2	<10	72	66
BS-SB7Pl-96-10A-10	10			<10	<1	57	<1	<1	80	<0.2	18	41	<5	<0.2	<5	35	3.4	<2	<10	74	63
BS-SB7Pl-96-10A-15	15			<20	<2	145	<2	<2	77	<0.2	21	34	<10	<0.2	<10	38	3.6	<4	<20	63	68
BS-SB7Pl-96-11-5 X	5			<25	2.8	126	<2.5	7.0	119	<1.0	25	41	<12.5	<0.2	<12.5	115	4.0	<5	<25	78	63
BS-SB7Pl-96-11-10	10			<10	<1	49	<1	1.2	69	<1.0	14	23	<5	<0.2	<5	36	2.3	<2	<10	34	47
BS-SB7Pl-96-11-15	15			<25	<2.5	54	<2.5	<2.5	71	<0.2	17	103	<12.5	<0.2	<12.5	45	3.7	<5	<25	50	83
BS-SB7Pl-96-11-20	20			<10	<1	99	<1	<1	52	<1.0	16	45	<5	<0.2	<5	28	2.6	<2	<10	42	71
BS-SB7Pl-96-11-25	25			<25	<2.5	239	<2.5	<2.5	98	<0.2	26	36	<12.5	<0.2	<12.5	109	3.5	<5	<25	102	63
BS-SB7Pl-96-11-30	30			<10	1.2	104	<1	<1	115	<1.0	19	22	<5	<0.2	<5	182	1.8	<2	<10	41	58
SS-7BW-97-1	1	Mar-97	BC	<10	2.1	143	<1	4.8	88		20.0	115	7.1	<0.2	<5	70	<1	<2	<10	80	134
SS-7BEXC-97-1-2.1 X	2.1	Aug-97	BC	<10	2.0	136	<1	2.2	100		17	26	28	<0.2	<5	76	1.3	<2	<10	70	60
SS-7BEXC-97-2-3.6	3.6			<10	2.1	100	<1	<1	65		16	23	<5	<0.2	<5	49	<1	<2	<10	71	69
SS-7BPL-98-1-8	8	Aug-98	BC	<10	1.3	83	1	<1	75		24	25	11	<0.2	<5	60	<1	<2	<10	49	212
SS-7BPL-98-2-4.2	4.2			<10	1.8	139	1.4	<1	94		18	236	51	<0.2	<5	52	<1	<2	<10	92	77
SS-7BPL-98-3-6	6			<10	3.0	150	1.4	<1	97		27	25	20	<0.2	<5	73	<1	<2	<10	96	59
SS-7BPL-98-4-3 X	3			<10	1.7	160	1.5	<1	92		18	25	10	<0.2	<5	45	<1	<2	<10	98	55
SS-7BPL-98-5-4 X	4			<10	1.8	131	1.5	9.2	88		15	32	13	<0.2	<5	44	<1	<2	<10	92	810
SS-7BPL-98-6-7 X	7			<10	3.6	134	1.4	<1	120	0.4	19	55	25	<0.2	<5	120	<1	<2	<10	109	67
SS-7BPL-98-7-6	6			<10	2.0	142	1.4	<1	92		16	26	18	<0.2	<5	56	<1	<2	<10	83	75
SS-7BPL-98-8-1.5 X	1.5			<50	<5	22	<5	<5	48		<25	**38,800**	**989**	0.32	169	610	<5	<10	<50	8.7	1580
SS-7BPL-98-9-2 X	2			<10	1.7	138	1.7	<1	83		17	56	13	<0.2	<5	43	<1	<2	<10	91	64
SS-7BPL-98-10-7	7			<10	<1	81	1.4	<1	85		17	36	9.6	<0.2	<5	41	<1	<2	<10	58	58
SS-7BPL-98-11-6	6			<10	1.2	99	<1	<1	69		24	27	7.1	<0.2	<5	55	<1	<2	<10	50	60
SS-7BPL-98-12-7.75	7.75			<10	<1	66	1.4	<1	67		20	18	8.0	<0.2	<5	38	<1	<2	<10	54	62
SS-7BPL-98-13-1.25 X	1.25			<25	14.0	108	<2.5	<2.5	**235**		22	**14,200**	**525**	2.8	23	175	<2.5	12	<25	46	4230
SS-7BPL-98-14-4.5	4.5			<10	1.6	149	1.0	<1	80		17	20	14	<0.2	<5	37	<1	<2	<10	82	53
SS-7BPL-98-15-5.5	5.5			<10	<1	58	<1	<1	69		21	18	6.7	<0.2	<5	42	<1	<2	<10	48	66

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS-7BPL-98-16-4.9	4.9	Aug-98	BC	*<10*	2.2	118	1.0	*<1*	93		18	25	8.9	*<0.2*	*<5*	71	*<1*	*<2*	*<10*	89	47
SS-7BPL-98-17-3.5 X	3.5			*<10*	1.7	133	*<1*	*<1*	74		15	20	19	*<0.2*	*<5*	41	*<1*	*<2*	*<10*	76	53
SS-7BPL-98-18-5.25	5.25			*<10*	1.7	117	*<1*	*<1*	81		17	19	8.1	*<0.2*	*<5*	42	*<1*	*<2*	*<10*	72	49
SS-7BPL-98-19-3	3			*<10*	2.6	145	1.0	*<1*	107	0.33	19	26	12	*<0.2*	*<5*	90	*<1*	*<2*	*<10*	92	48
SS-7BPL-98-20-3	3			*<10*	2.5	193	1.3	*<1*	107	0.32	17	21	9.9	*<0.2*	*<5*	83	*<1*	*<2*	*<10*	96	42
SS-7BPL-98-21-9	9			*<10*	1.9	122	1.2	*<1*	93		20	17	9.6	*<0.2*	*<5*	73	*<1*	*<2*	*<10*	75	59
SS-7BPL-98-22-7	7			*<10*	2.8	127	*<1*	*<1*	100	0.5	18	44	21	*<0.2*	*<5*	94	*<1*	*<2*	*<10*	79	98
SS-7BPL-98-23-7	7			*<10*	2.6	177	1.0	*<1*	89	*<0.1*	20	27	11	*<0.2*	*<5*	85	*<1*	*<2*	*<10*	84	60
SS-7BPL-98-24-7	7			*<10*	1.4	124	*<1*	*<1*	78		15	20	14	*<0.2*	*<5*	41	*<1*	*<2*	*<10*	74	55
SS-7BPL-98-25-4	4			*<10*	2.9	122	1.0	*<1*	86	*<0.1*	17	33	14	*<0.2*	*<5*	72	*<1*	*<2*	*<10*	76	61
SS-7BPL-98-26-4	4			*<10*	2.0	123	*<1*	*<1*	82		16	21	48	*<0.2*	*<5*	56	*<1*	*<2*	*<10*	70	52
SS-7BPL-98-27-3	3			*<10*	1.8	131	1.0	*<1*	83		18	32	14	*<0.2*	*<5*	59	*<1*	*<2*	*<10*	76	62
SS-7BPL-98-28-2.5 X	2.5			*<10*	2.0	133	1.2	*<1*	80		17	29	9.7	*<0.2*	*<5*	42	*<1*	*<2*	*<10*	92	68
SS-7BPL-98-29-2.5 X	2.5			*<10*	2.3	132	1.2	*<1*	77		18	17	8.7	*<0.2*	*<5*	42	*<1*	*<2*	*<10*	86	51
SS-7BPL-98-30-1 X	1			*<20*	4.3	112	3.2	4.3	64		13	**5810**	**586**	1.6	*<10*	60	*<2*	9.6	*<20*	59	1300
SS-7BPL-98-31-5	5			*<10*	1.3	130	1.2	*<1*	74		15	22	11	*<0.2*	*<5*	44	*<1*	*<2*	*<10*	75	51
SS-7BPL-Underpipes X				*<25*	5.0	79	*<2.5*	**444**	90		*<12.5*	1760	160	8.6	*<12.5*	145	*<2.5*	*<5*	*<25*	68	3610
SS-7BPl-99-1-2.9	2.9	Jun-99	BC	*<10*	1.6	133	*<1*	*<1*	77		19	22	*<5*	*<0.2*	*<5*	38	*<1*	*<2*	*<10*	82	43
SS-7BPl-99-2-2.8	2.8			*<10*	1.4	123	*<1*	*<1*	80		15	25	9.2	*<0.2*	*<5*	57	*<1*	*<2*	*<10*	74	45
SS-7BPl-99-3-2.8	2.8			*<10*	1.7	142	*<1*	*<1*	82		19	23	11	*<0.2*	*<5*	54	*<1*	*<2*	*<10*	76	51
SS-7BPl-99-4-2 X	2			*<10*	1.4	138	1.0	*<1*	78		19	2160	258	*<0.2*	*<5*	39	*<1*	2.1	*<10*	85	1070
SS-7BPl-99-5-1.2	1.2			*<10*	1.1	119	*<1*	*<1*	71		14	48	5.0	*<0.2*	*<5*	30	*<1*	*<2*	*<10*	78	59
SS-7BPl-99-6-1.7	1.7			*<10*	1.1	114	*<1*	*<1*	63		14	16	*<5*	*<0.2*	*<5*	26	*<1*	*<2*	*<10*	73	34
SS-7BPl-99-7-1.9	1.9			*<10*	1.6	148	*<1*	*<1*	89		18	22	8.3	*<0.2*	*<5*	60	*<1*	*<2*	*<10*	87	45
SS-7BPl-99-8-2	2			*<10*	1.7	161	*<1*	*<1*	85		22	34	*<5*	*<0.2*	*<5*	49	*<1*	*<2*	*<10*	92	56
SS-7BPl-99-9-2	2			*<10*	1.5	152	*<1*	*<1*	72		14	49	16	*<0.2*	*<5*	48	*<1*	*<2*	*<10*	77	161
SS-7BPl-99-10-3	3			*<10*	1.9	171	1.0	*<1*	90		23	38	*<5*	*<0.2*	*<5*	51	*<1*	*<2*	*<10*	107	86
SS-7BPl-99-11-4.2	4.2			*<10*	2.2	135	*<1*	*<1*	65		17	122	13	*<0.2*	*<5*	45	*<1*	*<2*	*<10*	77	126
SS-7BPl-99-12-4.5	2.5			*<10*	1.2	133	*<1*	*<1*	72		19	25	5.2	*<0.2*	*<5*	41	*<1*	*<2*	*<10*	80	48
SS-7BPl-99-13-2.8	2.8			*<10*	1.6	142	*<1*	*<1*	75		20	61	*<5*	*<0.2*	*<5*	44	1.2	*<2*	*<10*	86	63
SS-7N-001-1	3.3	Jan-00	BC	*<20*	3.0	118	*<2*	*<2*	105		17	29	21	*<0.2*	*<10*	70	*<0.5*	*<4*	*<50*	79	46
SS-7N-001-2	3.3			*<20*	2.0	120	*<2*	*<2*	97		22	37	*<10*	*<0.2*	*<10*	61	*<0.5*	*<4*	*<50*	79	56
SS-7N-001-3	3.3			*<20*	3.0	160	*<2*	*<2*	99		27	34	*<10*	*<0.2*	*<10*	83	*<0.5*	*<4*	*<50*	84	51
SS-7N-001-4	3.3			*<20*	3.0	130	*<2*	*<2*	98		20	31	*<10*	*<0.2*	*<10*	66	*<0.5*	*<4*	*<50*	83	54

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank																					
BS-MW-52B-95-13-6	6	Jul-95	BC	<5	<1	93	<0.5	<0.5	92	<1.0	17	16	<2.5	<0.2	<2.5	36	<0.5	<1	<5	71	50
BS-MW-52B-95-13-10.3	10.3			<5	<0.5	41	<0.5	<0.5	63	<1.0	15	16	<2.5	<0.2	<2.5	27	<0.5	<1	<5	38	46
BS-MW-52B-95-13-20.2	20.2			<5	<0.5	55	<0.5	<0.5	83	<1.0	15	9.1	<2.5	<0.2	<2.5	26	<0.5	<1	<5	39	51
BS-MW-52B-95-13-25.8	25.8			<5	<0.5	139	<0.5	<0.5	53	<1.0	17	33	<2.5	<0.2	<2.5	26	<0.5	<1	<5	40	91
BS-MW-52B-95-13-30.4	30.4			<5	<0.5	111	<0.5	<0.5	178	<1.0	22	22	<2.5	<0.2	<2.5	160	<0.5	1.1	<5	83	33
SS-52BT-WN-1-0	0	Jun-96	BC	<10	2.7	85	<1	1.3	44		14	28	6.8	1.1	<5	39	2.1	<2	<10	51	51
SS-52BT-WN-1-0.5	0.5			<10	2.6	116	<1	1.4	83		20	49	8.7	0.33	<5	47	3.3	<2	<10	82	80
SS-52BT-WN-2-0	0			<10	3.2	110	<1	1.7	77		17	54	71	0.93	<5	42	3.4	<2	<10	75	122
SS-52BT-WN-2-0.5	0.5			<10	3.0	116	<1	1.2	78		23	54	12	0.44	<5	75	3.3	<2	<10	76	89
SS-52BT-WN-3-0	0			<10	2.1	117	<1	1.0	68		22	27	8.1	0.22	<5	43	3.0	<2	<10	74	58
SS-52BT-WN-3-0.5	0.5			<10	1.7	125	<1	<1	76		16	22	6.4	<0.2	<5	37	3.2	<2	<10	76	56
SS-52BT-WN-4-0	0			<25	5.4	59	<2.5	<2.5	65		<12.5	28	35	0.26	<12.5	32	8.8	<5	<25	62	82
SS-52BT-WN-4-0.5	0.5			<10	1.9	47	<1	<1	36		15	25	<5	<0.2	<5	17	2.6	<2	<10	90	56
SS-52BT-WN-5-0	0			<25	4.1	66	<2.5	<2.5	81		<12.5	37	13	0.32	<12.5	33	4.5	<5	<25	72	71
SS-52BT-WN-5-0.5	0.5			<10	2.3	124	<1	1.1	74		18	26	11	0.2	<5	40	2.8	<2	<10	70	58
SS-52BT-WN-6-0	0			<10	1.5	35	<1	<1	29		10	33	<5	0.5	<5	26	3.9	<2	<10	38	45
SS-52BT-WE-1-0	0			<25	4.0	59	<2.5	<2.5	86		<12.5	31	19	<0.2	<12.5	<12.5	33	<5	<25	80	70
SS-52BT-WE-1-0.5	0.5			<10	2.2	120	<1	<1	77		18	23	12	<0.2	<5	40	3.0	<2	<10	72	58
SS-52BT-WE-2-0	0			<10	2.4	143	<1	1.1	82		18	32	8.4	<0.2	<5	46	3.4	<2	<10	80	62
SS-52BT-WE-3-0	0			<10	2.9	126	<1	1.1	72		18	45	**11,100**	0.6	<5	44	3.1	<2	<10	75	103
SS-52BT-WE-3-0.5	0.5			<10	2.7	67	<1	<1	33		18	17	17	<0.2	<5	24	3.1	<2	<10	61	50
SS-52BT-F-1-0	0			<25	3.1	96	<2.5	<2.5	99		24	27	<12.5	0.2	<12.5	81	3.4	<5	<25	83	66
SS-52BT-F-1-0.5	0.5			<25	4.0	129	<2.5	<2.5	95		37	77	<12.5	1.0	<12.5	88	3.6	<5	<25	76	213
SS-53A-97-1-4.9	4.9	Sep-97	BC	<10	1.8	137	<1	<1	92		17	25	8.2	<0.2	<5	54	<1	<2	<10	79	50
SS-53A-97-2-8	8			<10	2.1	139	<1	<1	104		19	24	<5	<0.2	<5	59	<1	<2	<10	73	54
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area																					
SS17SW-1/2-1.0	1	Apr-93	C	<1	13	68	0.42	<0.05	10		18	46	8.4	0.06	2.4	110	5.7	<0.25	<2	43	45
SS17-94-01-0.5	0.5	Jun-94	BC	<5	1.1	136	<0.5	<0.5	84		19	45	11	<0.2	<2.5	74	<0.5	<1	<1	79	106
SS17-94-01-5	5			<5	0.92	95	<0.5	<0.5	75		18	47	3.4	<0.2	<2.5	62	<0.5	<1	<1	70	68
SS17-94-01-9.5	9.5			<5	4.8	93	<0.5	<0.5	88		19	44	5.4	<0.2	<2.5	141	<0.5	<1	<1	44	78

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS17-94-02-1	1	Jun-94	BC	*<5*	3.1	147	*<0.5*	1.3	83		18	45	10	*<0.2*	*<2.5*	135	*<1*	*<1*	*<5*	50	127
SS17-94-02-5	5			*<5*	1.6	119	*<0.5*	*<0.5*	78		14	57	3.8	*<0.2*	*<2.5*	75	*<0.5*	*<1*	*<5*	59	66
SS17-94-02-7	7			*<5*	3.1	97	*<0.5*	*<0.5*	90		15	38	*<2.5*	*<0.2*	*<2.5*	77	*<0.5*	*<1*	*<5*	73	51
SS17-94-03-1	1			*<5*	1.5	101	*<0.5*	*<0.5*	66		19	91	4.7	*<0.2*	*<2.5*	61	*<0.5*	*<1*	*<5*	66	84
SS17-94-04-1.5	1.5			*<5*	1.7	144	*<0.5*	*<0.5*	57		20	52	14	*<0.2*	*<2.5*	42	*<0.5*	*<1*	*<5*	65	78
SS17-94-04-5.5	5.5			*<5*	1.4	104	*<0.5*	*<0.5*	71		18	43	5.8	*<0.2*	*<2.5*	38	*<0.5*	*<1*	*<5*	71	59
SS17-94-04-11	11			*<5*	1.2	75	*<0.5*	*<0.5*	28		20	27	3.7	*<0.2*	*<2.5*	25	*<0.5*	*<1*	*<5*	33	59
SS17-94-05-3	3			*<5*	1.5	143	*<0.5*	0.56	89		23	47	32	0.21	*<2.5*	96	*<0.5*	1.1	*<5*	61	96
SS17-94-06-5	5			*<5*	1.0	110	*<0.5*	1.1	133		22	48	49	*<0.2*	*<2.5*	163	*<0.5*	1.2	*<5*	70	125
SS17-94-07-1	1			*<5*	1.8	101	*<0.5*	*<0.5*	107		21	43	11	*<0.2*	*<2.5*	148	*<0.5*	*<1*	*<5*	57	83
SS17-94-07-2.5	2.5			*<5*	1.7	103	*<0.5*	*<0.5*	107		21	45	19	0.31	*<2.5*	132	*<0.5*	7.7	*<5*	69	81

SWMU 10-4: Building 16 Former Waste Accumulation Area

SS16W-1/2-2.0	2.0	Apr-93	C	*<1*	11	65	0.39	*<0.05*	28		14	52	21	0.26	2.4	42	3	*<0.25*	*<2*	36	102
SS16W-3-2.0	2.0			*<1*	19	104	0.54	*<0.05*	32		12	17	13	*<0.05*	2.1	60	3	*<0.25*	*<2*	45	22
SS16-94-01-0.5	0.5	Jun-94	BC	*<5*	3.6	163	*<0.5*	0.98	65		12	154	39	0.77	*<2.5*	62	*<0.5*	1.0	*<5*	46	158
SS16-94-01-5	5			*<5*	2.4	170	*<0.5*	*<0.5*	110		22	56	43	*<0.2*	*<2.5*	98	*<0.5*	*<1*	*<5*	67	63
SS16-94-01-9	9			*<5*	1.8	52	*<0.5*	*<0.5*	88		16	35	*<2.5*	*<0.2*	*<2.5*	125	*<0.5*	*<1*	*<5*	47	55
SS16-94-02-0.5	0.5			*<5*	2.6	162	*<0.5*	*<0.5*	90		25	66	24	0.6	4.2	100	*<0.5*	*<1*	*<5*	70	65
SS16-94-02-5	5			*<5*	5.8	113	*<0.5*	*<0.5*	**226**		24	53	3.1	*<0.2*	*<2.5*	**244**	*<0.5*	1.2	5.9	92	71
SS16-94-03-0.5	0.5			*<5*	2.9	87	*<0.5*	0.68	57		10	82	16	0.5	*<2.5*	66	*<0.5*	*<1*	*<5*	34	78
SS16-94-03-5	5			*<5*	2.3	149	*<0.5*	*<0.5*	91		19	34	28	*<0.2*	*<2.5*	96	*<0.5*	*<1*	*<5*	68	55
SB7-94-01-2.7	2.7	Oct-94	BC	*<5*	3.9	92	*<0.5*	*<0.5*	87		13	41	5.5	*<0.2*	*<2.5*	145	*<0.5*	*<1*	*<5*	39	63
SB7-94-01-4.6	4.6			*<5*	1.2	100	*<0.5*	*<0.5*	78		17	45	4.9	*<0.2*	*<2.5*	**153**	*<0.5*	*<1*	*<5*	46	74
SB7-94-01-9.6	9.6			*<5*	1.6	89	*<0.5*	*<0.5*	46		11	33	4.1	*<0.2*	*<2.5*	85	*<0.5*	*<1*	*<5*	35	53
SB7-94-01-14.3	14.3			*<5*	1.2	124	*<0.5*	0.52	64		13	40	4.0	*<0.2*	*<2.5*	84	*<0.5*	*<1*	*<5*	48	58
BS-SB16-96-1-0.7	0.7	Aug-96	BC	*<10*	3.1	200	*<1*	3.2	96		33	176	52	0.59	*<5*	110	*<1*	*<2*	*<10*	70	161
BS-SB16-96-1-3	3			1.2	1.9	159	*<1*	1.8	75		20	30	16	*<0.2*	*<5*	66	*<1*	*<2*	*<10*	70	44
BS-SB16-96-2-0.6	0.6			*<10*	2.5	228	*<1*	2.4	81		28	38	11	*<0.2*	*<5*	94	*<1*	*<2*	*<10*	84	70
BS-SB16-96-2-9	9			*<10*	4.0	169	*<1*	2.4	114		21	45	14	*<0.2*	*<5*	133	*<1*	*<2*	*<10*	78	69
BS-SB16-96-3-0.5	0.5			*<10*	4.0	170	*<1*	3.0	107		26	120	36	18	*<5*	105	*<1*	*<2*	*<10*	82	116
BS-SB16-96-4-0.8	0.8			*<10*	2.7	237	*<1*	3.2	91		21	113	35	3.7	*<5*	85	*<1*	*<2*	*<10*	76	232
BS-SB16-96-5-0.8	0.8			*<10*	4.3	197	*<1*	4.3	102		32	263	67	**46**	5.1	106	*<1*	3.0	*<10*	78	196
BS-SB16-96-6-0.6	0.6			*<10*	3.2	188	*<1*	2.3	98		25	54	21	0.29	*<5*	111	*<1*	*<2*	*<10*	78	106

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB16-96-6-3	3	Aug-96	BC	*<10*	4.0	165	*<1*	**87**	88	*<0.2*	17	62	13	0.5	*<5*	94	*<1*	*<2*	*<10*	64	66
BS-SB16-96-7-0.7	0.7			*<10*	2.8	158	*<1*	2.1	95		20	36	41	3.7	*<5*	95	*<1*	*<2*	*<10*	67	81
BS-SB16-96-7-2.2	2.2			*<10*	1.9	153	*<1*	2.4	93	0.4	20	49	23	0.3	*<5*	78	*<1*	*<2*	*<10*	70	77
BS-SB16-96-8-0.6	0.6			*<10*	6.7	147	*<1*	2.4	135		20	38	14	0.42	*<5*	136	*<1*	*<2*	*<10*	73	55
BS-SB16-96-8-2.7	2.7			*<10*	9.4	141	*<1*	2.5	138	0.4	21	48	29	*<0.2*	*<5*	146	*<1*	*<2*	*<10*	82	90
BS-SB16-96-9-0.8	0.8			*<10*	3.2	149	*<1*	2.2	99		20	30	12	*<0.2*	*<5*	109	*<1*	*<2*	*<10*	71	48
BS-SB16-96-9-1.8	1.8			*<10*	5.2	157	*<1*	2.5	134	0.5	22	39	10	*<0.2*	*<5*	131	*<1*	*<2*	*<10*	88	53
BS-SB16-96-10-0.6	0.6			*<10*	1.9	205	*<1*	2.8	104		25	53	11	*<0.2*	*<5*	89	*<1*	*<2*	*<10*	92	72
BS-SB16-96-10-1.5	1.5			*<10*	3.7	169	*<1*	2.5	103		20	35	49	*<0.2*	*<5*	99	*<1*	*<2*	*<10*	85	75
BS-SB16-96-11-0.8	0.8			*<10*	2.5	175	*<1*	2.4	93		17	34	13	*<0.2*	*<5*	76	*<1*	*<2*	*<10*	80	68
BS-SB16-96-12-0.8	0.8			*<10*	2.4	142	*<1*	2.4	99		14	36	25	*<0.2*	*<5*	68	*<1*	*<2*	*<10*	78	66
BS-SB16-96-12-2.7	2.7			*<10*	3.7	178	*<1*	2.2	94		28	38	30	*<0.2*	*<5*	93	*<1*	*<2*	*<10*	78	63
BS-SB16N-96-1-6.5	6.5			*<10*	2.9	143	*<1*	*<1*	98		20	49	20	0.22	*<5*	87	1.9	*<2*	*<10*	73	94
BS-SB16N-96-1-9	9			*<10*	3.5	129	*<1*	*<1*	87		20	28	7.0	*<0.2*	*<5*	58	1.7	*<2*	*<10*	88	59
BS-SB16-97-1-2	2	Mar-97	BC							*<0.1*											
BS-SB16-97-2-0.5	0.5									*<0.1*				0.94							
BS-SB16-97-2-2.3	2.3									*<0.1*											
BS-SB16-97-3-0.7	0.7									*<0.1*				0.33							
BS-SB16-97-3-2	2									*<0.1*											
BS-SB16-97-4-0.5	0.5									*<0.1*				*<0.2*							
BS-SB16-97-4-2	2									*<0.1*				3.3							
BS-SB16-97-4-4.9	4.9													*<0.2*							
BS-SB16-97-5-0.5	0.5									*<0.1*				0.85							
BS-SB16-97-6-0.5	0.5									*<0.1*				0.31							
BS-SB16-97-6A-5	5													*<0.2*							
BS-SB16-97-7-0.4	0.4							1.7		*<0.1*				19.0							
BS-SB16-97-7-2	2									*<0.1*				0.45							
BS-SB16-97-7-5.3	5.3							*<1*													
BS-SB16-97-8-0.5	0.5									*<0.1*				0.94							
BS-SB16-97-8-1.8	1.8									*<0.1*											
BS-SB16-97-9-0.6	0.6									*<0.1*											
BS-SB16-97-9-2	2									*<0.1*											
BS-SB16-97-10-0.4	0.4									*<0.1*											
BS-SB16-97-10-2.4	2.4									*<0.1*											

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB16-97-11-3.5	3.5	Nov-97	BC	*<10*	2.4	155	*<1*	*<1*	96		13	46	7.6	*<0.2*	*<5*	81	*<1*	*<2*	*<10*	84	54
SB16-97-11-15.8	15.8			*<10*	3.6	96	*<1*	*<1*	97		17	47	*<5*	*<0.2*	*<5*	145	*<1*	*<2*	*<10*	64	66
SB16-97-11-25.8	25.8			*<10*	5.5	130	*<1*	*<1*	63		15	35	5.2	*<0.2*	*<5*	100	*<1*	*<2*	*<10*	40	58

SWMU 10-10: Building 25 Plating Shop Floor Drains

BS-SB25Pl-96-1-0.9	0.9	Sep-96	BC	*<10*	3.9	148	*<1*	2.0	71	*<0.2*	20	68	48	*<0.2*	*<5*	83	*<1*	*<2*	*<10*	68	156
BS-SB25Pl-96-1-2.7	2.7			*<10*	4.2	139	*<1*	*<1*	71	*<0.2*	21	31	*<5*	*<0.2*	*<5*	91	*<1*	*<2*	*<10*	40	98
BS-SB25Pl-96-2-0.7	0.7			*<10*	4.4	117	*<1*	1.4	112	*<0.2*	18	40	*<5*	*<0.2*	*<5*	142	*<1*	*<2*	*<10*	83	83
BS-SB25Pl-96-2-2.2	2.2			*<10*	3.2	151	*<1*	*<1*	56	*<0.2*	23	43	*<5*	*<0.2*	*<5*	64	*<1*	*<2*	*<10*	76	65
BS-SB25Pl-96-3-0.6	0.6			*<10*	3.5	100	*<1*	3.0	69	*<0.2*	44	71	27	*<0.2*	*<5*	30	*<1*	4.5	*<10*	10	508
BS-SB25Pl-96-4-0.7	0.7			*<10*	3.2	180	*<1*	*<1*	30	*<0.2*	12	87	*<5*	*<0.2*	*<5*	27	*<1*	*<2*	*<10*	51	68
BS-SB25Pl-96-4-2.6	2.6			*<10*	2.5	106	*<1*	*<1*	**816**	*<0.2*	25	1870	*<5*	*<0.2*	*<5*	106	*<1*	*<2*	*<10*	165	86
BS-SB25Pl-96-5-0.8	0.8			*<10*	2.0	128	*<1*	*<1*	50	*<0.2*	24	43	*<5*	*<0.2*	*<5*	51	*<1*	*<2*	*<10*	80	57
BS-SB25Pl-96-5-2.4	2.4			*<20*	2.0	150	*<2*	*<2*	103	0.54	19	611	*<10*	*<0.2*	*<10*	83	*<2*	*<4*	*<20*	97	66
BS-SB25Pl-96-6-0.8	0.8			*<10*	3.1	129	*<1*	*<1*	69	*<0.2*	23	279	51	*<0.2*	*<5*	67	*<1*	*<2*	*<10*	91	69
BS-SB25Pl-96-6-2.5	2.5			*<10*	4.5	144	*<1*	*<1*	76	*<0.2*	17	33	*<5*	*<0.2*	*<5*	114	*<1*	*<2*	*<10*	87	61
BS-SB25Pl-96-7-0.9	0.9			*<20*	5.0	140	*<2*	*<2*	126	*<0.2*	28	400	35	*<0.2*	*<10*	105	*<2*	*<4*	*<20*	123	108
BS-SB25Pl-96-7-2.7	2.7			*<10*	2.6	171	*<1*	*<1*	49	*<0.2*	16	31	6.6	*<0.2*	*<5*	74	*<1*	*<2*	*<10*	84	58
BS-SB25Pl-96-8-0.9	0.9			*<200*	*<20*	156	*<20*	*<20*	172	*<0.2*	*<100*	512	**904**	*<0.2*	*<100*	*<100*	*<20*	*<40*	*<200*	108	144
BS-SB25Pl-96-8-2.6	2.6			*<10*	7.5	111	*<1*	*<1*	64	*<0.2*	17	65	225	*<0.2*	*<5*	111	*<1*	*<2*	*<10*	79	71
BS-SB25Pl-96-9-1	1			*<20*	7.6	120	*<2*	*<2*	109	*<0.2*	18	779	18	*<0.2*	*<10*	120	*<2*	*<4*	*<20*	89	139
BS-SB25Pl-96-9-2.4	2.4			*<10*	9.4	108	*<1*	*<1*	50	*<0.2*	18	37	*<5*	*<0.2*	*<5*	120	*<1*	*<2*	*<10*	74	63
BS-SB25Pl-96-10-0.9	0.9			*<10*	8.8	109	*<1*	*<1*	71	0.5	19	42	*<5*	*<0.2*	*<5*	110	*<1*	*<2*	*<10*	76	65
BS-SB25Pl-96-10-2.6	2.6			*<10*	9.4	101	*<1*	*<1*	90	*<0.2*	18	37	*<5*	*<0.2*	*<5*	112	*<1*	*<2*	*<10*	86	65
BS-SB25Pl-96-11-0.9	0.9			*<10*	9.5	101	*<1*	*<1*	81	*<0.2*	17	54	*<5*	0.25	*<5*	116	*<1*	*<2*	*<10*	83	298
BS-SB25Pl-96-11-2.6	2.6			*<10*	11	101	*<1*	*<1*	57	0.2	18	38	*<5*	*<0.2*	*<5*	126	*<1*	*<2*	*<10*	80	65
BS-SB25Pl-96-12-0.9	0.9			*<10*	10	103	*<1*	*<1*	67	*<0.2*	18	37	*<5*	0.23	*<5*	116	*<1*	*<2*	*<10*	78	66
BS-SB25Pl-96-12-2.6	2.6			*<10*	12	114	*<1*	*<1*	66	*<0.2*	20	54	*<5*	*<0.2*	*<5*	126	1.0	*<2*	*<10*	82	71
BS-SB25Pl-96-13-0.9	0.9			*<10*	8.2	109	*<1*	*<1*	73	*<0.2*	18	38	*<5*	*<0.2*	*<5*	108	*<1*	*<2*	*<10*	83	65
BS-SB25Pl-96-13-2.5	2.5			*<10*	11	108	*<1*	*<1*	77	*<0.2*	20	47	*<5*	*<0.2*	*<5*	128	*<1*	*<2*	*<10*	84	70
BS-SB25Pl-96-14-0.9	0.9			*<10*	6.9	147	*<1*	*<1*	66	*<0.2*	15	114	*<5*	*<0.2*	*<5*	84	*<1*	*<2*	*<10*	78	80
BS-SB25Pl-96-14-2	2			*<10*	5.5	17	*<1*	*<1*	32	*<0.2*	5.9	43	*<5*	*<0.2*	*<5*	31	*<1*	*<2*	*<10*	22	129
BS-SB25Pl-96-15-1.1	1.1			*<10*	6.3	117	*<1*	*<1*	89	0.2	22	27	*<5*	*<0.2*	*<5*	92	*<1*	*<2*	*<10*	87	54
BS-SB25Pl-96-15-2.6	2.6			*<10*	9.9	107	*<1*	*<1*	97	*<0.2*	18	26	*<5*	*<0.2*	*<5*	95	*<1*	*<2*	*<10*	107	60

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB25Pl-96-16-1.1	1.1	Sep-96	BC	*<10*	**23**	198	*<1*	1.2	34	*<0.2*	10	33	27	*<0.2*	*<5*	16	1.2	*<2*	*<10*	42	251
BS-SB25Pl-96-16-2	2			*<10*	17	171	*<1*	1.2	44	*<0.2*	24	38	22	*<0.2*	*<5*	32	1.2	*<2*	*<10*	55	324
BS-SB25Pl-96-17-1	1			*<10*	**24**	202	*<1*	1.2	34	*<0.2*	15	36	25	*<0.2*	*<5*	15	1.2	*<2*	*<10*	41	282
BS-SB25Pl-96-17-2.1	2.1			*<10*	17	168	*<1*	1.0	33	*<0.2*	12	46	25	*<0.2*	*<5*	30	1.0	*<2*	*<10*	52	211

AOC 2-1: Building 7E Former Underground Storage Tank

MW7-92-16-5.5	5.5	Aug-92	C	*<1*	9.7	130	0.23	0.13	41		14	107	6.8	0.07	*<0.25*	46	9.1	*<0.25*	*<2*	42	47
MW7-92-16-21	21			1.3	**21**	130	0.28	0.08	56		17	16	6.1	*<0.05*	*<0.25*	41	8.2	*<0.25*	*<2*	62	38
MW7-92-16-30.8	30.8			*<1*	2.7	51	0.12	*<0.05*	57		13	33	2.2	*<0.05*	*<0.25*	21	*<0.5*	*<0.25*	*<2*	39	66
MW7-92-16-40.5	40.5			*<1*	*<0.25*	26	0.06	0.05	17		6.5	29	0.91	*<0.05*	*<0.25*	8.1	*<0.5*	*<0.25*	*<2*	17	34
MW7-92-16-50.3	50.3			*<1*	1.1	28	0.29	*<0.05*	34		10	33	1.8	*<0.05*	*<0.25*	13	*<0.5*	*<0.25*	*<2*	46	65
SB6-93-4-6	6	Sep-93	C	1.3	*<0.25*	99	0.26	2	44		13	75	9.8	0.06	1.3	53	*<0.5*	*<0.25*	*<2*	37	110
SB6-93-4-16	16			*<1*	*<0.25*	118	0.46	1.8	42		12	24	7.2	*<0.05*	0.49	82	*<0.5*	*<0.25*	*<2*	24	42
SB6-93-4-26	26			*<1*	*<0.25*	105	0.5	1.5	44		15	19	4.4	*<0.05*	*<0.25*	58	*<0.5*	0.39	*<2*	46	31
SB6-93-4-35.5	35.5			2.2	3.2	130	0.29	3.5	65		20	23	*<0.5*	*<0.05*	4.7	41	*<0.5*	0.96	*<2*	91	64
SB6-93-4-45	45			*<1*	3.7	58	0.1	2.5	40		15	10	*<0.5*	*<0.05*	2.8	23	*<0.5*	2.1	*<2*	28	49
MW6-95-14-8.5	8.5	Aug-95	BC	*<5*	3.1	116	<0.5	*<0.5*	61		12	24	7.8	*<0.2*	*<2.5*	79	0.57	*<1*	*<5*	44	53
MW6-95-14-19.5	19.5			*<5*	1.2	121	0.51	*<0.5*	59		16	28	4	*<0.2*	*<2.5*	42	*<0.5*	*<1*	*<5*	46	53
MW6-95-14-28.5	28.5			*<5*	*<0.5*	45	<0.5	*<0.5*	45		15	14	*<2.5*	*<0.2*	*<2.5*	21	*<0.5*	*<1*	*<5*	19	51
MW6-95-14-38.7	38.7			*<5*	*<0.5*	44	<0.5	*<0.5*	69		17	16	*<2.5*	*<0.2*	*<2.5*	25	*<0.5*	*<1*	*<5*	33	59
MW6-95-14-48.5	48.5			*<5*	*<0.5*	33	<0.5	*<0.5*	47		15	11	*<2.5*	*<0.2*	*<2.5*	21	*<0.5*	*<1*	*<5*	27	51
MW6-95-14-58.5	58.5			*<5*	*<0.5*	35	<0.5	*<0.5*	23		10	6.4	*<2.5*	*<0.2*	*<2.5*	13	*<0.5*	*<1*	*<5*	17	34
MW6-95-14-68.5	68.5			*<5*	3.5	90	<0.5	*<0.5*	56		14	31	4.5	*<0.2*	*<2.5*	98	*<0.5*	*<1*	*<5*	32	55
SB7-95-1-5.5	5.5	May-95	BC	*<5*	2.5	142	<0.5	*<0.5*	76		12	40	6.9	*<0.2*	*<2.5*	97	*<1*	*<1*	*<5*	45	55
SB7-95-1-10.3	10.3			*<5*	4.2	142	<0.5	*<0.5*	79		21	27	4.1	*<0.2*	*<2.5*	104	*<1*	*<1*	*<5*	59	35
SB7-95-1-15.8	15.8			*<5*	4.0	141	<0.5	*<0.5*	82		16	32	4.2	*<0.2*	*<2.5*	88	*<1*	*<1*	*<5*	62	46
SB7-95-1-21	21			*<5*	3.1	158	<0.5	*<0.5*	83		20	58	4	*<0.2*	*<2.5*	78	*<1*	*<1*	*<5*	67	63
SB7-95-1-25.8	25.8			*<5*	0.81	88	<0.5	*<0.5*	70		18	24	*<2.5*	*<0.2*	*<2.5*	42	*<1*	*<1*	*<5*	48	55
SB7-95-1-30.3	30.3			*<5*	0.57	62	<0.5	*<0.5*	46		12	11	*<2.5*	*<0.2*	*<2.5*	22	*<1*	*<1*	*<5*	42	44
SB7-95-2-6.3	6.3			*<5*	5.7	161	0.5	*<0.5*	48		11	28	6.4	*<0.2*	*<2.5*	82	*<1*	*<1*	*<5*	29	51
SB7-95-2-9.6	9.6			*<5*	2.3	134	0.5	*<0.5*	66		20	26	5.9	*<0.2*	*<2.5*	102	*<1*	*<1*	*<5*	45	38
SB7-95-2-14.5	14.5			*<5*	3.3	133	0.5	*<0.5*	58		14	25	10	*<0.2*	*<2.5*	76	*<1*	*<1*	*<5*	39	44
SB7-95-2-20.5	20.5			*<5*	3.2	143	0.54	*<0.5*	78		18	24	2.9	*<0.2*	*<2.5*	67	*<1*	*<1*	*<5*	62	45
SB7-95-2-25	25			*<5*	4.7	145	0.58	*<0.5*	71		18	64	2.8	*<0.2*	*<2.5*	61	*<1*	*<1*	*<5*	65	62

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB7-95-2-30.1	30.1	May-95	BC	<5	1.2	106	<0.5	<0.5	69		16	24	<2.5	<0.2	<2.5	40	<1	<1	<5	60	57
SB7-95-3-3.5	3.5			<5	8.2	139	<0.5	<0.5	30		12	34	6.8	<0.2	<2.5	60	<1	<1	<5	22	57
SB7-95-3-5.5	5.5			<5	5.6	147	<0.5	<0.5	61		16	30	4.5	<0.2	<2.5	102	<1	<1	<5	34	54
SB7-95-3-10.6	10.6			<5	4.5	74	0.51	<0.5	106		18	24	<2.5	<0.2	<2.5	105	<1	<1	<5	55	52
SB7-95-3-15.9	15.9			<5	5.5	164	0.6	<0.5	90		20	28	3.3	<0.2	<2.5	118	<1	<1	<5	58	39
SB7-95-3-20.5	20.5			<5	1.3	125	<0.5	<0.5	62		17	19	<2.5	<0.2	<2.5	31	<1	<1	<5	33	57
SB7-95-3-25.5	25.5			<5	0.61	77	<0.5	<0.5	50		15	15	<2.5	<0.2	<2.5	22	<1	<1	<5	24	55
SB7-95-3-30	30			<5	1.0	79	<0.5	<0.5	50		18	16	<2.5	<0.2	<2.5	28	<1	<1	<5	33	56
SB7-95-4-3.3	2.2			<5	8.3	156	0.53	<0.5	66		13	31	7.2	<0.2	<2.5	103	<1	<1	<5	35	56
SB7-95-4-5.6	5.6			<5	2.2	257	0.77	<0.5	67		11	36	8.5	<0.2	<2.5	94	<1	<1	<5	31	80
SB7-95-4-10.1	10.1			<5	4.4	145	0.59	<0.5	97		20	29	3.2	<0.2	<2.5	118	<1	<1	<5	60	39
SB7-95-4-16	16			<5	4.1	129	0.61	<0.5	84		13	23	2.9	<0.2	<2.5	84	<1	<1	<5	62	40
SB7-95-4-20.2	20.2			<5	1.1	112	<0.5	<0.5	68		17	18	<2.5	<0.2	<2.5	36	<1	<1	<5	35	55
SB7-95-4-25.3	25.3			<5	1.3	97	<0.5	<0.5	67		19	15	<2.5	<0.2	<2.5	29	<1	<1	<5	42	59
SB7-95-4-30.4	30.4			<5	<1	120	<0.5	<0.5	62		17	34	<2.5	<0.2	<2.5	25	<1	<1	<5	38	55
SB7-95-4-35	35			<5	<1	63	<0.5	<0.5	78		19	19	<2.5	<0.2	<2.5	28	<1	<1	<5	54	64
SB7-95-4-40.3	40.3			<5	6.7	181	0.57	<0.5	74		21	39	3.8	<0.2	<2.5	148	<1	<1	<5	74	56
SB7-95-4-45.3	45.3			<5	2.2	116	<0.5	<0.5	88		12	27	<2.5	<0.2	<2.5	126	<1	<1	<5	50	41

AOC 2-5: Former Building 7 Sump

SS7N-1-0	0	Oct-92	C	<1	8.0	100	0.25	<0.05	75		17	23	22	0.11	<0.25	57	<0.5	59	<2	54	140
SS7N-2-0	0			<1	14	120	0.27	17	110		13	125	140	1.3	<0.25	52	<0.5	1.4	<2	38	160
SS7N-3-0	0			1.5	14	96	0.2	<0.05	22		11	46	15	0.6	<0.25	31	4.9		<2	30	70
BSVZM-OT-1-4	4	Dec-92	C	<1	16	125	0.76	<0.05	70		27	34	15	0.11	0.68	104	1.5	<0.25	<2	44	56
BSVZM-OT-1-11	11			<1	4.4	44	0.29	<0.05	115		14	16	3.4	0.05	<0.25	134	<0.5	<0.25	<2	30	22
BSVZM-OT-1-20.5	20.5			<1	6.5	43	0.25	<0.05	71		19	19	2.7	0.05	<0.25	140	<0.5	<0.25	<2	27	29
BSVZM-OT-1-30	30			<1	8.7	145	0.6	<0.05	32		15	18	8.3	0.08	<0.25	91	<0.5	<0.25	<2	43	53
BS-OT2-11	11	Aug-93	C	2.0	<0.25	64	0.26	3.1	86		31	35	15	0.12	3.2	86	<0.5	4.5	<2	65	120
BS-OT2-31	31			<1	5	110	0.09	1.4	50		14	26	6.3	<0.05	2.1	140	<0.5	2.2	<2	44	48
BS7-94-3-4.5	4.5	May-94	BC	<5	1.2	120	<0.5	<0.5	114		23	28	3	<0.05	<2.5	**243**	<0.5	<1	<5	58	48
BS7-94-3-9.5	9.5			<5	5.7	90	<0.5	<0.5	202		27	33	4.7	<0.2	<2.5	**289**	<0.5	<1	<5	58	63
BS7-94-3-14.5	14.5			<5	3.3	175	<0.5	0.56	154		27	33	4.3	<0.2	<2.5	**353**	<0.5	<1	<5	55	61
BS7-94-3-24	24			<5	6.5	128	0.58	<0.5	69		12	30	7.2	<0.2	<2.5	101	<0.5	<1	<5	43	60
BS7-94-3-28.8	28.8			<5	1.3	135	<0.5	<0.5	45		13	36	3.8	<0.2	<2.5	80	<0.5	<1	<5	35	59

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS7-94-3-33.7	33.7	May-94	BC	<5	<0.5	76	<0.5	<0.5	58		11	29	2.9	<0.2	<2.5	91	1.4	<1	<5	37	50
BS7-94-3-43.5	43.5			<5	1.3	94	<0.5	<0.5	80		12	32	<2.5	<0.2	<2.5	82	<0.5	<1	<5	50	49
BS-SB-7B-95-1-0.5 X	0.5	Jun-95	BC	<5	<0.5	37	<0.5	<0.5	59		20	62	<2.5	<0.2	<2.5	43	<0.5	<1	<5	64	52
BS-SB-7B-95-1-2.8 X	2.8			<5	0.52	74	<0.5	**22**	**323**	<1	15	1640	34	<0.2	<2.5	57	<0.5	2.5	<5	69	74
BS-SB-7B-95-1-6 X	6.0			<5	<0.5	58	<0.5	3	58	<1	13	96	<2.5	<0.2	<2.5	37	<0.5	<1	<5	56	45
BS-SB-7B-95-1-8.3 X	8.3			<5	<0.5	57	<0.5	0.63	70		16	158	2.5	<0.2	<2.5	32	<0.5	<1	<5	40	55
BS-SB-7B-95-1-12.8 X	12.8			<5	0.5	42	<0.5	0.77	52		16	137	<2.5	<0.2	<2.5	42	<0.5	<1	<5	48	45
BS-SB-7B-95-1-21	21			<5	0.65	118	<0.5	<0.5	79		15	34	4	<0.2	<2.5	104	<0.5	<1	<5	65	49
BS-SB-7B-95-1-30.8	30.8			<5	2	170	<0.5	0.52	**213**		30	44	5.9	<0.2	<2.5	**400**	<0.5	<1	5.8	59	61
BS-SB-7B-95-2-3.5	3.5			<5	<1	89	<0.5	3.4	86	<1	16	88	4.3	<0.2	<2.5	54	<0.5	<1	<5	62	68
BS-SB-7B-95-2-6	6			<5	<0.5	65	<0.5	1	63	<1	18	26	3.1	<0.2	<2.5	40	<0.5	<1	<5	49	57
BS-SB-7B-95-2-11	11			<5	0.81	68	<0.5	<0.5	83	<1	14	30	4.4	<0.2	<2.5	66	<0.5	<1	<5	74	50
BS-SB-7B-95-2-21	21			<5	3.6	244	0.5	<0.5	205		30	40	5.4	<0.2	<2.5	**363**	<0.5	<1	6.4	73	62
BS-SB-7B-95-2-31	31			<5	1.8	162	<0.5	<0.5	185		23	34	4.2	<0.2	<2.5	**283**	<0.5	<1	<5	60	53
BS-SB-7B-95-3-1.1	1.1			<5	2.3	89	<0.5	5.1	57		13	96	19	<0.2	<2.5	64	<0.5	<1	<5	50	91
BS-SB-7B-95-3-10.6	10.6			<5	1.2	75	0.75	<0.5	78		15	42	3.7	<0.2	<2.5	**151**	<0.5	<1	<5	61	54
BS-SB-7B-95-3-20.9	20.9			<5	1.1	153	0.46	<0.5	127		16	69	6.1	<0.2	<2.5	**165**	<0.5	<1	<5	66	65
BS-SB-7B-95-3-30.9	30.9			<5	8.6	173	0.7	<0.5	81		17	60	7.7	<0.2	<2.5	131	<0.5	<1	<5	52	77
BS-SB-7B-95-4-2.5	2.5			<5	1.6	31	<0.5	<0.5	32		9.2	44	3	<0.2	<2.5	25	<0.5	1.3	<5	49	77
BS-SB-7B-95-4-5	5			<5	2.6	107	<0.5	1.1	104	<1	15	49	20	<0.2	<2.5	106	<0.5	6.2	5	58	63
BS-SB-7B-95-4-10.1	10.1			<5	<0.5	52	<0.5	<0.5	99	<1	18	44	2.9	<0.2	<2.5	**195**	<0.5	<1	<5	44	42
BS-SB-7B-95-4-20.3	20.3			<5	0.88	89	<0.5	<0.5	90		19	46	2.7	<0.2	<2.5	127	<0.5	<1	<5	100	46
BS-SB-7B-95-4-31	31			<5	1.4	114	<0.5	<0.5	49		14	30	6.4	<0.2	<2.5	84	<0.5	<1	<5	57	56
BS-SB-7B-95-5-2.5	2.5			<5	1.9	115	<0.5	<0.5	69		13	18	8.8	<0.2	<2.5	37	<0.5	<1	<5	58	44
BS-SB-7-95-5-0.9	0.9	Jun-95	BC	<5	3.2	100	0.52	<0.5	89		17	37	6.6	<0.2	<2.5	120	<0.5	<1	<5	62	48
BS-SB-7-95-5-5.5	5.5									<1											
BS-SB-7-95-5-11	11			<5	<0.5	57	<0.5	<0.5	49		16	18	<2.5	<0.2	<2.5	36	<0.5	<1	<5	40	46
BS-SB-7-95-5-20.9	20.9			<5	1.2	154	<0.5	<0.5	45		9.5	33	5.2	<0.2	<2.5	60	<0.5	<1	<5	29	50
BS-SB-7-95-5-31	31			<5	9.3	212	0.58	<0.5	115	<1	16	37	7.6	<0.2	<2.5	**152**	<0.5	<1	<5	51	75
BS-SB-7-95-6-1.8	1.8			<5	3	107	<0.5	<0.5	95		20	28	5.9	<0.2	<2.5	98	<0.5	<1	<5	67	44
BS-SB-7-95-6-5.7	5.7									<1											
BS-SB-7-95-6-10.7	10.7			<5	3.6	71	<0.5	<0.5	67		14	32	5.1	<0.2	<2.5	56	<0.5	<1	<5	85	46
BS-SB-7-95-6-20.7	20.7			<5	9	170	0.6	<0.5	71		15	45	7.6	<0.2	<2.5	119	<0.5	<1	<5	52	74
BS-SB-7-95-6-30	30			<5	6.7	171	<0.5	<0.5	75		14	39	5.4	<0.2	<2.5	121	<0.5	<1	<5	44	59
BS-SB-7-95-7-0.9	0.9			<5	4.1	126	0.5	<0.5	89		13	36	6.2	<0.2	<2.5	93	<0.5	<1	<5	55	51

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB-7-95-7-5.5	5.5	Jun-95	BC							*<1*											
BS-SB-7-95-7-10.8	10.8			*<5*	1.6	90	0.62	*<0.5*	58		17	26	2.9	*<0.2*	*<2.5*	67	*<0.5*	*<1*	*<5*	59	44
BS-SB-7-95-7-20.7	20.7			*<5*	2.5	156	*<0.5*	*<0.5*	54		13	38	5.6	*<0.2*	*<2.5*	67	*<0.5*	*<1*	*<5*	36	62
BS-SB-7-95-7-30.4	30.4			*<5*	8.4	150	*<0.5*	*<0.5*	58		11	39	4.9	*<0.2*	*<2.5*	83	*<0.5*	*<1*	*<5*	48	59
SS-B7EXC-4.8-Comp		Aug-95	BC	*<5*	2.0	104	0.53	18	88		17	176	2.9	*<0.2*	*<2.5*	94	*<0.5*	*<1*	*<5*	81	66
SS-B7EXC-N-17-Comp				*<5*	2.4	98	*<0.5*	1.3	107		19	39	*<2.5*	*<0.2*	*<2.5*	**158**	*<0.5*	*<1*	*<5*	70	50
SS-B7EXC-S-17-Comp				*<5*	1.8	65	*<0.5*	*<0.5*	173		21	32	*<2.5*	*<0.2*	*<2.5*	**194**	*<0.5*	*<1*	*<5*	67	39
SS-B7EXC-W-5				*<5*	2.0	89	*<0.5*	*<0.5*	89		15	54	12	*<0.2*	*<2.5*	81	*<0.5*	2.0	*<5*	55	68

AOC 7-1: Building 46 Former Scrap Yard

BS46-92-9-5.5	5.5	Feb-92	C	*<2*	7	100	0.9	*<0.2*	73		23	28	11	*<0.2*	*<0.6*	72	*<2*	0.4	3	85	49
BS46-92-9-11	11			*<2*	7	110	0.6	0.3	92		13	24	7	*<0.2*	*<0.6*	98	*<2*	*<0.2*	7	60	43
BS46-92-9-15.5	15.5			*<2*	5	110	0.7	0.3	43		10	26	9	*<0.2*	*<0.6*	59	*<2*	*<0.2*	4	45	50
BS46-92-9-20.5	20.5			*<2*	8	120	0.7	0.2	53		10	33	12	*<0.2*	*<0.6*	58	*<2*	0.5	6	43	57
BS46-92-9-30	30			*<2*	11	200	0.7	*<0.2*	61		12	29	11	*<0.2*	*<0.6*	65	*<2*	0.6	5	50	58
BS46-92-9-40.5	40.5			*<2*	3	280	0.9	*<0.2*	83		16	34	12	*<0.2*	*<0.6*	80	*<2*	0.2	7	78	64
BS46-92-9-50	50			*<2*	11	230	0.9	0.2	99		16	21	14	*<0.2*	*<0.6*	100	*<2*	0.6	8	67	80
BS46-92-9-80	80			*<2*	8	270	0.8	0.3	97		16	27	12	0.3	1.3	110	*<2*	0.5	4	59	21
BS46-94-1-4	4	Apr-94	BC	*<5*	0.63	133	*<0.5*	*<0.5*	74		15	27	*<2.5*	*<0.2*	*<2.5*	69	*<0.5*	*<1*	*<5*	85	54
BS46-94-1-9	9			*<5*	9.0	106	*<0.5*	*<0.5*	109		23	30	*<2.5*	*<0.2*	*<2.5*	**251**	*<0.5*	*<1*	*<5*	92	48
BS46-94-1-14	14			*<5*	4.0	125	0.5	*<0.5*	90		15	33	4.7	*<0.2*	*<2.5*	**175**	*<0.5*	*<1*	*<5*	51	60
BS46-94-1-18.9	18.9			*<5*	9.0	114	0.67	*<0.5*	70		15	45	6.4	*<0.2*	*<2.5*	75	*<0.5*	*<1*	*<5*	54	75
BS-SB-46-95-1-5.1	5.1	Aug-95	BC	*<5*	1.2	111	*<0.5*	*<0.5*	116	*<1.0*	22	35	4.4	*<0.2*	*<2.5*	**213**	*<0.5*	1.0	*<5*	56	54
BS-SB-46-95-1-10.6	10.6			*<5*	1.7	55	*<0.5*	*<0.5*	59	*<1.0*	11	20	3.4	*<0.2*	*<2.5*	31	*<0.5*	*<1*	*<5*	41	41
BS-SB-46-95-2-5.5	5.5			*<5*	*<0.5*	40	*<0.5*	*<0.5*	43		16	21	*<2.5*	*<0.2*	*<2.5*	31	*<0.5*	*<1*	*<5*	28	46
BS-SB-46-95-2-10.4	10.4			*<5*	4.4	95	*<0.5*	*<0.5*	65		12	32	4.6	*<0.2*	*<2.5*	107	*<0.5*	*<1*	*<5*	42	52

AOC 7-6: Building 58 Former Hazardous Materials Storage Area

BS58-92-8-5.5	5.5	Mar-92	C	*<2*	2	97	0.3	0.3	52		15	21	4	*<0.2*	*<0.6*	21	2	*<0.2*	*<3*	22	45
BS58-92-8-11	11			*<2*	**28**	840	1.1	0.8	18		4.8	14	5	*<0.2*	11	38	3	1.0	*<3*	28	27
BS58-92-8-16	16			*<2*	8	330	0.8	1.0	51		23	35	13	*<0.2*	*<0.6*	79	6	0.5	*<3*	36	75
BS58-92-8-21	21			*<2*	13	190	0.8	0.5	97		15	25	14	*<0.2*	0.7	110	3	*<0.2*	6	52	87
BS58-92-8-30.8	30.8			*<2*	5	270	0.8	0.3	33		15	24	12	*<0.2*	*<0.6*	51	3	*<0.2*	*<3*	35	75

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-MW-58-95-11-4.8	4.8	May-95	BC	<5	1.4	91	<0.5	<0.5	70		14	37	<2.5	<0.2	<2.5	37	<1	<1	<5	56	55
BS-MW-58-95-11-14.5	14.5			<5	<0.5	58	<0.5	<0.5	63		14	18	<2.5	<0.2	<2.5	25	<1	<1	<5	35	51
BS-MW-58-95-11-25.4	25.4			<5	7.7	180	0.74	<0.5	80		14	53	10	<0.2	<2.5	124	1.3	<1	<5	36	91
BS-SB-58-95-1-3.6	3.6	May-95	BC	<5	2.2	159	<0.5	<0.5	82		15	19	<2.5	<0.2	<2.5	41	<0.5	<1	<5	62	46
BS-SB-58-95-1-14.2	14.2			<5	<0.5	89	<0.5	<0.5	58		14	46	<2.5	<0.2	<2.5	25	<0.5	<1	<5	36	60
BS-SB-58-95-1-29.5	29.5			<5	0.72	56	<0.5	<0.5	57		10	28	2.9	<0.2	<2.5	78	<0.5	<1	<5	27	46
BS-SB-58-95-2-3.2	3.2			<5	**28**	93	<0.5	<0.5	65		10	25	13	<0.2	<2.5	36	<1	<1	<5	36	69
BS-SB-58-95-2-10.2	10.2			<5	1.4	118	<0.5	<0.5	84		17	31	4.3	<0.2	<2.5	**159**	<1	<1	<5	59	52
BS-SB-58-95-2-24.9	24.9			<5	<0.5	80	<0.5	<0.5	75		20	41	<2.5	<0.2	<2.5	46	<1	<1	<5	78	39
BS-MW58-96-12-3	3	Dec-96	BC	<10	1.3	86	<1	<1	84		16	27	<5	<0.2	<5	47	<1	<2	<10	53	64
BS-MW58-96-12-7	7			<10	1.6	74	<1	<1	64		16	24	<5	<0.2	<5	38	<1	<2	<10	52	57

AOC 10-2: Building 52A Former Hazardous Materials Storage Area

BS52-93-14-4.5	4.5	Nov-93	BC	<5	0.58	112	<0.5	<0.5	76		16	15	<2.5	<0.2	<2.5	37	<0.5	<1	<5	74	45
BS52-93-14-15.8	15.8			<5	<0.5	48	<0.5	<0.5	69		16	14	<2.5	<0.2	<2.5	25	<0.5	<1	<5	41	52
BS52-93-14-25.3	25.3			<5	<0.5	34	<0.5	<0.5	49		16	21	<2.5	<0.2	<2.5	23	<0.5	<1	<5	35	73
BS52-93-14-35	35			<5	0.64	51	<0.5	<0.5	38		11	16	<2.5	<0.2	<2.5	18	<0.5	<1	<5	24	42
BS52-93-14-46.2	46.2			<5	9.1	162	<0.5	<0.5	54		12	36	6.4	<0.2	<2.5	67	<0.5	<1	<5	51	63
BS-SB52A-98-1-5.6-18.6	18.6	Apr-98	BC	<10	<1	56	<1	<2	69		16	31	<5	<0.2	<5	34	<2	<2	<10	47	92
BS-SB52A-98-1-29.2-58.5	58.5			<10	4.4	153	<1	<2	69		20	35	<5	<0.2	<5	81	<2	<2	<10	68	87

AOC 10-3: Building 25A Sanitary Sewer System

MW26-92-11-4	4	Mar-92	Q	<2	11	91	0.8	0.3	67		17	15	9	<0.2	<0.6	54	<2	5.2	<3	64	56
MW26-92-11-9	9			<2	7	170	0.8	0.2	59		19	20	6	<0.2	<0.6	40	<2	<0.2	<3	60	36
MW26-92-11-20.5	20.5			<2	10	100	0.5	0.2	100		20	32	7	<0.2	<0.6	**190**	<2	<0.2	4	50	53
MW26-92-11-30.2	30.2			<2	11	94	0.6	<0.2	77		16	35	8	<0.2	<0.6	130	2	<0.2	8	50	57
MW76-93-7-5.5	5.5	Aug-93	C	3.0	<0.25	30	0.10	2.1	49		15	34	<0.5	0.06	3.2	130	<0.5	1.0	<2	21	26
MW76-93-7-15.5	15.5			<1	<0.25	54	0.28	3.0	38		8.8	42	<0.5	0.06	3.7	130	<0.5	1.1	<2	42	58
MW76-93-7-26	26			<1	5.0	120	0.29	4.0	43		16	58	5.4	0.12	3.3	91	<0.5	2.0	<2	49	66
MW76-93-7-35.5	35.5			3.1	13	180	0.36	2.9	34		13	25	<0.5	<0.05	5.7	68	<0.5	1.8	<2	20	43
SB25-95-2-3.7	3.7	Apr-95	BC	<5	<1	114	<0.5	<0.5	34		13	10	<2.5	<0.2	<2.5	12	<0.5	<1	<5	51	52
SB25-95-3-5.3	5.3			<5	<0.5	59	<0.5	<0.5	18		24	19	<2.5	<0.2	<2.5	40	<0.5	<1	<5	23	61

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB25-95-3-10	10	Apr-95	BC	*<5*	*<0.5*	47	*<0.5*	*<0.5*	34		15	18	*<2.5*	*<0.2*	*<2.5*	19	*<0.5*	*<1*	*<5*	35	54
SB25-95-3-15.7	15.7			*<5*	*<0.5*	62	*<0.5*	*<0.5*	19		14	22	*<2.5*	*<0.2*	*<2.5*	12	*<0.5*	*<1*	*<5*	26	56
SB25-95-3-20.6	20.6			*<5*	*<0.5*	92	*<0.5*	*<0.5*	31		23	26	*<2.5*	*<0.2*	*<2.5*	28	*<0.5*	*<1*	*<5*	43	60
SB25-95-3-25	25			*<5*	*<1*	81	*<0.5*	*<0.5*	32		20	29	*<2.5*	*<0.2*	*<2.5*	25	*<0.5*	*<1*	*<5*	61	60
SB25-95-3-30	30			*<5*	1.5	204	*<0.5*	*<0.5*	108		21	14	*<2.5*	*<0.2*	*<2.5*	52	*<0.5*	*<1*	*<5*	63	55
SB25-95-3-35.5	35.5			*<5*	1.4	130	*<0.5*	*<0.5*	74		16	43	3.3	*<0.2*	*<2.5*	61	*<0.5*	*<1*	*<5*	61	69
MW25A-98-7Comp		Aug-98	BC	*<20*	4.0	147	*<2*	*<2*	100		18	35	*<10*	*<0.2*	*<10*	**165**	*<2*	*<4*	*<20*	63	67
SB25A-98-2Comp		Aug-98	BC	*<20*	6.4	117	*<2*	*<2*	85		20	39	11	*<0.2*	*<10*	139	*<2*	*<4*	*<20*	68	70
MW25A-98-6Comp		Oct-98	BC	*<10*	1.5	104	*<1*	*<1*	87		14	22	60	*<0.2*	*<5*	62	*<1*	*<2*	*<10*	66	45
AOC 14-6: Building 10 and 80 Sanitary Sewers																					
SB80-96-1-5.3	5.3	Jul-96		*<10*	5.9	235	*<1*	*<1*	39		13	34	9.2	*<0.2*	*<5*	47	1	*<2*	*<10*	53	63
SB80-96-1-10.3	10.3			*<10*	3	255	*<1*	*<1*	36		17	58	9.2	*<0.2*	*<5*	46	*<1*	*<2*	*<10*	49	104
SB2-96-1-24.8	24.8	Mar-98		*<5*	3.1	169	*<0.5*	1.1	31		13	44	13	*<0.2*	*<2.5*	35	*<0.5*	*<1*	*<5*	51	83
SB2-96-2-19	19	Apr-98		*<10*	3	145	*<1*	1.2	47		16	58	9.3	*<0.2*	*<5*	46	*<1*	*<2*	*<10*	71	104
AOC 2-4: Old Town Groundwater Solvent Plume																					
BS-MW-53-95-12-5.7	5.7	Jul-95	BC	*<5*	*<0.5*	40	*<0.5*	*<0.5*	60	*<1.0*	18	15	*<2.5*	*<0.2*	*<2.5*	22	*<0.5*	*<1.0*	*<5*	39	53
BS-MW-53-95-12-10.2	10.2			*<5*	*<0.5*	42	*<0.5*	*<0.5*	56	*<1.0*	16	20	*<2.5*	*<0.2*	*<2.5*	22	*<0.5*	*<1.0*	*<5*	39	53
BS-MW-53-95-12-15	15			*<5*	*<0.5*	42	*<0.5*	*<0.5*	58	*<1.0*	16	16	*<2.5*	*<0.2*	*<2.5*	22	*<0.5*	*<1.0*	*<5*	50	52
BS-MW-53-95-12-25.2	25.2			*<5*	*<0.5*	36	*<0.5*	*<0.5*	80	*<1.0*	17	20	*<2.5*	*<0.2*	*<2.5*	25	*<0.5*	*<1.0*	*<5*	58	56
BS-MW-53-95-12-40.8	40.8			*<5*	5.7	115	*<0.5*	*<0.5*	**219**	*<1.0*	27	20	4.9	*<0.2*	*<2.5*	**302**	0.61	*<1.0*	11	61	49
BS-MW-53-95-12-50.3	50.3			*<5*	*<0.5*	70	*<0.5*	*<0.5*	90	*<1.0*	17	48	*<2.5*	*<0.2*	*<2.5*	**276**	*<0.5*	*<1.0*	*<5*	70	48
BS-MW58-95-18-9	9	Aug-95	BC	*<5*	1.2	102	*<0.5*	*<0.5*	68		12	16	3.2	*<0.2*	*<2.5*	32	*<0.5*	*<1.0*	*<5*	51	46
BS-MW58-95-18-18.3	18.3			*<5*	0.98	217	0.64	*<0.5*	75		6.0	30	4.1	*<0.2*	*<2.5*	75	*<0.5*	*<1.0*	*<5*	39	74
BS-MW58-95-19-10	10	Sep-95	BC	*<5*	*<0.5*	80	*<0.5*	*<0.5*	56		14	49	3.4	*<0.2*	*<2.5*	**185**	*<0.5*	*<1.0*	*<0.5*	31	60
BS-MW58-95-20-10.6	10.6	Aug-95	BC	*<5*	1.0	52	*<0.5*	*<0.5*	56	*<1.0*	17	30	*<2.5*	*<0.2*	*<2.5*	32	0.56	1.0	6.6	41	57
BS-MW58-95-20-20.9	20.9			*<5*	*<0.5*	67	*<0.5*	*<0.5*	44		13	19	*<2.5*	*<0.2*	*<2.5*	18	*<0.5*	*<1.0*	6.4	32	43
BS-MW58-95-20-30.6	30.6			*<5*	3.4	276	0.70	*<0.5*	96	*<1.0*	19	37	4.6	*<0.2*	*<2.5*	140	*<0.5*	*<1.0*	11	56	93
BS-MW7B-95-21-5	5	Aug-95	BC	*<5*	1.1	106	*<0.5*	*<0.5*	58		20	312	9.8	*<0.2*	*<2.5*	31	*<0.5*	*<1.0*	*<5*	45	94
BS-MW7B-95-21-15.2	15.2			*<5*	*<0.5*	42	*<0.5*	*<0.5*	51		14	22	*<2.5*	*<0.2*	*<2.5*	23	*<0.5*	*<1.0*	*<5*	27	41
BS-MW7B-95-21-24.6	24.6			*<5*	1.7	111	*<0.5*	*<0.5*	**760**		17	29	2.5	*<0.2*	*<2.5*	92	*<0.5*	*<1.0*	*<5*	104	47

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-MW7B-95-21-34.8	34.8	Aug-95	BC	<5	2.9	115	<0.5	<0.5	155		26	46	3.2	<0.2	<2.5	**270**	<0.5	<1.0	<5	46	55
BS-MW7B-95-21-40.4	40.4			<5	2.3	114	<0.5	<0.5	78		16	32	3.7	<0.2	<2.5	105	<0.5	<1.0	<5	47	53
BS-MW7-95-22-10.3	10.3	Aug-95	BC	<5	2.0	150	0.61	<0.5	98		18	28	12	<0.2	3.0	82	<0.5	<1.0	<5	63	71
BS-MW7-95-22-20.1	20.1			<5	2.6	67	0.53	<0.5	158		17	78	3.1	<0.2	<2.5	**159**	<0.5	<1.0	<5	75	65
BS-MW7-95-22-30.2	30.2			<5	1.5	78	<0.5	<0.5	97		16	42	4.0	<0.2	<2.5	**194**	<0.5	<1.0	<5	33	54
BS-MW7-95-22-40	40			<5	<0.5	106	<0.5	<0.5	115		23	42	<2.5	<0.2	<2.5	**216**	<0.5	<1.0	<5	46	44
BS-MW7-95-23-10-40'CompA	40	Dec-95	BC	<5	2.8	94	<0.5	<2	115		21	32	4.5	<0.2	<2.5	**203**	<2	<1.0	<0.5	62	47
BS-MW7-95-23-41-58'CompB	58			<5	2.8	114	<0.5	<2	100		16	29	4.3	<0.2	<2.5	132	<2	<1.0	<0.5	63	47
BS-SB-7B-95-6-4.6-24.2'Comp/	24.2	Dec-95	BC	<5	1.1	102	0.56	<0.5	52		17	22	3.5	<0.2	<2.5	31	0.95	<1.0	<0.5	45	42
BS-SB-7B-95-6-34.6-44.5'Com	44.5			<5	4.7	147	<0.5	<0.5	88		15	36	3.2	<0.2	<2.5	137	0.77	<1.0	<0.5	43	49
BS-SB7B-95-7-4-24.1'CompA	24.1	Dec-95	BC	<5	1.6	117	0.52	<0.5	48		17	28	6.8	<0.2	<2.5	30	1.1	<1.0	<0.5	50	52
BS-SB7B-95-7-34.1-59.4'Comp	59.4			<5	10	167	0.58	<0.5	54		14	37	5.2	<0.2	<2.5	90	1.0	<1.0	<0.5	52	63
BS-SB-7B-95-8-3.7-24'CompA	24	Dec-95	BC	<5	1.3	105	0.56	<0.5	57		19	21	7.1	<0.2	<2.5	29	1.1	<1.0	<0.5	55	51
BS-SB-7B-95-8-34-54.1'CompE	54.1			<5	<0.5	39	<0.5	<0.5	58		16	23	<2.5	<0.2	<2.5	22	1.0	<1.0	0.54	44	48
BS-SB-7B-95-8-64-78.9'CompC	78.9			<5	1.9	116	<0.5	<0.5	90		19	44	3.1	<0.2	<2.5	187	1.2	<1.0	<0.5	63	49
BS-SB7C-95-1-4-24.3'CompA	24.3	Dec-95	BC	<5	0.97	89	<0.5	<0.5	48		15	19	<2.5	<0.2	<2.5	25	0.83	<1.0	<0.5	39	39
BS-SB7C-95-1-34.6-44.2'Comp	44.2			<5	1.8	74	<0.5	<0.5	49		16	26	2.7	<0.2	<2.5	95	1.1	<1.0	<0.5	66	40
BS-SBY-96-1-Comp		Feb-96	BC	<10	3.3	192	<1.0	<1.0	88		15	37	8.7	<0.2	<5	99	1.3	<2.0	<10	53	77
BS-SBY-96-2-Comp				<10	2.9	161	<1.0	<1.0	94		13	24	6.6	<0.2	<5	90	1.1	<2.0	<10	64	67
BS-SBY-96-3-Comp				<10	4.7	162	<1.0	<1.0	78		13	27	14	<0.2	<5	50	<1.0	<2.0	<10	65	55
BS-SB7C-96-1-5.5	5.5	Apr-96	CLS	<5	<0.8	110	0.25	1.4	68		15	11	12	<0.05	<2.5	33	<0.5	<1.0	<4.0	69	44
BS-SB7C-96-1-15.5	15.5			<5	<0.8	71	<0.14	1.1	63		15	5.3	6.1	<0.05	<2.5	28	<0.5	<1.0	<4.0	44	44
BS-SB7C-96-1-25.5	25.5			<5	<0.8	41	<0.14	<0.5	39		12	8.8	<5	<0.05	<2.5	18	<0.5	<1.0	<4.0	26	37
BS-SB7C-96-1-35.5	35.5			<5	<0.8	31	<0.14	1.1	78		16	7.9	<5	<0.05	<2.5	21	<0.5	<1.0	<4.0	36	48
BS-SB7C-96-1-47	47			<5	<0.8	39	<0.14	0.97	67		14	10	6.3	<0.05	<2.5	23	<0.5	<1.0	<4.0	41	49
BS-SB7C-96-1-55	55	Apr-96	CLS	<5	<0.8	48	<0.14	1.4	69		21	2.2	6.2	<0.05	<2.5	46	<0.5	<1.0	<4.0	54	51
BS-SB7C-96-1-65.5	65.5			<5	<0.8	370	<0.14	<0.5	110		20	56	<5	0.08	<2.5	130	<0.5	<1.0	<4.0	55	58
BS-SB7C-96-1-70.5	70.5			<5	<0.8	100	<0.14	<0.5	64		14	27	12	<0.05	<2.5	81	<0.5	<1.0	<4.0	54	66
BS-SB52B-96-1-4.3	4.3	Apr-96	CLS	<5	<0.8	140	0.48	1.1	70		17	22	9.4	<0.05	<2.5	55	<0.5	<1.0	<4.0	60	39
BS-SB52B-96-1-14.6	14.6			<5	<0.8	58	0.25	0.81	40		14	12	<5	<0.05	<2.5	27	<0.5	<1.0	<4.0	35	47
BS-SB52B-96-1-24.2	24.2			<5	<0.8	43	0.30	0.87	35		14	8.3	<5	<0.05	<2.5	17	<0.5	<1.0	<4.0	33	40
BS-SB52B-96-1-34	34			<5	<0.8	38	0.28	0.97	42		13	12	5.0	<0.05	<2.5	16	<0.5	<1.0	<4.0	30	40
BS-SB52B-96-1-44.3	44.3			<5	<0.8	42	0.24	1.1	39		13	5.7	5.5	<0.05	<2.5	18	<0.5	<1.0	<4.0	27	41

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB52B-96-1-54.5	54.5	Apr-96	CLS	*<5*	4.2	40	0.23	0.88	39		13	21	6.2	*<0.05*	*<2.5*	16	*<0.5*	*<1.0*	*<4.0*	36	51
BS-SB52B-96-1-74	74			*<5*	*<0.8*	79	*<0.14*	*<0.5*	44		14	23	*<5*	*<0.05*	*<2.5*	22	*<0.5*	*<1.0*	*<4.0*	27	45
BS-SB52B-96-1-79.8	79.8			*<5*	*<0.8*	110	0.27	0.69	56		11	25	10	*<0.05*	*<2.5*	60	*<0.5*	*<1.0*	*<4.0*	46	52
BS-MW53-96-1-71	71	Apr-96	CLS	*<5*	*<0.8*	42	*<0.14*	*<0.5*	32		14	18	*<5*	*<0.05*	*<2.5*	16	*<0.5*	*<1.0*	*<4.0*	20	43
BS-MW53-96-1-75	75			*<5*	*<0.8*	100	*<0.14*	*<0.5*	**300**		11	22	*<5*	*<0.05*	*<2.5*	66	*<0.5*	*<1.0*	*<4.0*	84	33
BS-MW53-96-1-79.5	79.5			*<5*	*<0.8*	75	*<0.14*	0.81	68		16	31	9.9	0.097	*<2.5*	**160**	*<0.5*	*<1.0*	*<4.0*	39	63
BS-MW51-96-3-15	15	Apr-96	CLS	*<5*	*<0.8*	470	*<0.5*	*<0.5*	91		11	6.5	14	*<0.05*	*<2.5*	94	*<0.5*	*<1.0*	*<4.0*	61	76
BS-MW51-96-3-25	25			*<5*	*<0.8*	190	*<0.5*	*<0.5*	18		6.0	26	*<5*	*<0.05*	*<2.5*	27	*<0.5*	*<1.0*	*<4.0*	16	41
BS-SB46Gr-96-1-5.6	5.6	Sep-96	BC	*<10*	1.4	124	*<1*	*<1*	81		21	28	*<5*	*<0.2*	*<5*	43	1.8	*<2*	*<10*	72	72
BS-SB46Gr-96-1-10.5	10.5			*<10*	*<1*	70	*<1*	*<1*	105		21	30	*<5*	*<0.2*	*<5*	33	1.2	*<2*	*<10*	47	69
BS-SB46Gr-96-1-15.8	15.8			*<10*	4.8	128	*<1*	*<1*	71		17	45	*<5*	*<0.2*	*<5*	116	1.2	*<2*	*<10*	52	57
BS-SB46Gr-96-1-20.8	20.8			*<10*	3.1	146	*<1*	*<1*	55		12	47	*<5*	*<0.2*	*<5*	69	1.0	*<2*	*<10*	40	82
BS-SB46Gr-96-2-5.4	5.4			*<10*	*<1*	38	*<1*	*<1*	19		23	40	*<5*	*<0.2*	*<5*	31	1.1	*<2*	*<10*	32	45
BS-SB46Gr-96-2-10.6	10.6			*<10*	*<1*	72	*<1*	*<1*	71		21	32	*<5*	*<0.2*	*<5*	37	*<1*	*<2*	*<10*	80	74
BS-SB46Gr-96-2-15	15			*<10*	*<1*	101	*<1*	*<1*	72		17	30	*<5*	*<0.2*	*<5*	33	1.1	*<2*	*<10*	51	58
BS-SB46Gr-96-2-21	21			*<20*	*<2*	100	*<2*	*<2*	61		20	22	*<10*	*<0.2*	*<10*	26	*<2*	*<4*	*<20*	36	64
BS-SB46Gr-96-2-26	26			*<10*	*<1*	65	*<1*	*<1*	62		17	22	*<5*	*<0.2*	*<5*	26	*<1*	*<2*	*<10*	37	62
BS-SB46Gr-96-2-31	31			*<10*	*<1*	64	*<1*	*<1*	101		19	22	*<5*	*<0.2*	*<5*	33	*<1*	*<2*	*<10*	50	69
BS-SB46Gr-96-2-35.3	35.3			*<10*	*<1*	83	*<1*	*<1*	47		15	23	*<5*	*<0.2*	*<5*	25	*<1*	*<2*	*<10*	36	59
BS-SB46Gr-96-3-5	5			*<20*	*<2*	63	*<2*	*<2*	39		23	13	*<10*	*<0.2*	*<10*	31	*<2*	*<4*	*<20*	99	52
BS-SB46Gr-96-3-15.5	15.5			*<10*	*<1*	79	*<1*	*<1*	71		13	33	*<5*	*<0.2*	*<5*	30	*<1*	*<2*	*<10*	88	57
BS-SB46Gr-96-3-20.5	20.5			*<10*	*<1*	87	*<1*	*<1*	53		16	19	*<5*	*<0.2*	*<5*	28	*<1*	*<2*	*<10*	28	51
BS-SB46Gr-96-3-25.6	25.6			*<10*	*<1*	70	*<1*	*<1*	77		19	17	*<5*	*<0.2*	*<5*	27	*<1*	*<2*	*<10*	48	58
BS-SB46Gr-96-3-30.7	30.7			*<10*	*<1*	49	*<1*	*<1*	51		17	12	*<5*	*<0.2*	*<5*	21	*<1*	*<2*	*<10*	20	56

AOC 10-5: Solvent Contaminated Groundwater in Area 10

BS-MW52-95-2-2.6	2.6	Aug-95	BC	*<5*	1.7	126	0.64	*<0.5*	79		18	18	3.6	*<0.2*	*<2.5*	43	*<0.5*	*<1*	*<5*	64	36
BS-MW52-95-2-10	10			*<5*	2.0	146	0.63	*<0.5*	73		20	44	4.0	*<0.2*	*<2.5*	40	*<0.5*	*<1*	*<5*	69	59
BS-MW52-95-2-29	29			*<5*	2.1	67	*<0.5*	*<0.5*	33		21	20	*<2.5*	*<0.2*	*<2.5*	29	*<0.5*	*<1*	*<5*	37	76
BS-MW52-95-2-39.7	39.7			*<5*	1.1	45	*<0.5*	*<0.5*	26		16	33	*<2.5*	*<0.2*	*<2.5*	19	*<0.5*	*<1*	*<5*	31	54
BS-MW52-95-2-49	49			*<5*	2.1	73	*<0.5*	*<0.5*	50		21	20	*<2.5*	*<0.2*	*<2.5*	35	*<0.5*	*<1*	*<5*	28	46
BS-MW52-95-2-59.3	59.3			*<5*	1.0	557	0.66	*<0.5*	57		18	30	4.5	*<0.2*	*<2.5*	50	*<0.5*	*<1*	*<5*	67	52
BS-MW52-95-2-69	69			*<5*	*<0.5*	47	0.57	*<0.5*	58		14	14	*<2.5*	*<0.2*	*<2.5*	21	*<0.5*	*<1*	*<5*	39	44
BS-MW52-95-2-79	79			*<5*	*<0.5*	51	*<0.5*	*<0.5*	58		13	25	*<2.5*	*<0.2*	*<2.5*	17	*<0.5*	*<1*	*<5*	25	46

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-MW52-95-2-89	89	Aug-95	BC	<5	<0.5	46	<0.5	<0.5	45		11	12	<2.5	<0.2	<2.5	15	<0.5	<1	<5	27	38
BS-MW52-95-2-100	100			<5	1.0	80	<0.5	<0.5	73		18	19	<2.5	<0.2	<2.5	47	<0.5	<1	<5	83	53
BS-MW52-95-2-110.3	110.3			<5	7.7	139	<0.5	<0.5	54		11	105	5.1	<0.2	<2.5	67	<0.5	<1	<5	39	86
BS-MW25-95-5-3.1	3.1	Aug-95	BC	<5	0.76	94	0.79	<0.5	57		21	23	<2.5	<0.2	<2.5	32	<0.5	<1	<5	55	66
BS-MW25-95-5-10	10			<5	1.0	111	0.61	<0.5	52		16	20	<2.5	<0.2	<2.5	17	<0.5	<1	<5	29	52
BS-MW25-95-5-20	20			<5	0.51	76	<0.5	<0.5	49		21	30	<2.5	<0.2	<2.5	22	<0.5	<1	<5	29	67
BS-MW25-95-5-30.1	30.1			<5	<0.5	61	<0.5	<0.5	83		21	37	<2.5	<0.2	<2.5	33	<0.5	<1	<5	36	73
BS-MW25-95-5-98.1	98.1			<5	<0.5	118	<0.5	<0.5	42		5.3	26	4.3	<0.2	<2.5	59	<0.5	<1	<5	21	52
BS-MW25A-95-15-5	5	Aug-95	BC	<5	3.3	111	<0.5	<0.5	98	<1.0	18	37	4.6	<0.2	<2.5	**185**	<0.5	<1	<5	54	57
BS-MW25A-95-15-15.4	15.4			<5	4.6	105	0.50	<0.5	38		8.7	33	5.3	<0.2	<2.5	62	<0.5	<1	<5	32	51
BS-MW25A-95-15-25.3	25.3			<5	4.2	128	<0.5	<0.5	92	<1.0	14	39	4.0	<0.2	<2.5	**163**	<0.5	<1	<5	39	51
BS-MW25A-95-15-35	35			<5	7.6	180	0.64	<0.5	58	<1.0	13	41	6.2	<0.2	<2.5	73	0.52	1.0	<5	45	68
BS-MW25A-95-15-45	45			<5	3.5	197	<0.5	<0.5	118	<1.0	15	53	4.1	<0.2	<2.5	106	<0.5	<1	<5	52	62
BS-MW25A-95-15-50	50			<5	8.8	227	0.55	<0.5	69	<1.0	13	33	5.7	<0.2	<2.5	90	<0.5	<1	<5	53	63
BS-MW4-96-2-5	5	Apr-96	CLS	<5	<0.8	73	0.30	1.3	92		16	31	9.8	0.063	<2.5	160	<0.5	<1	<4	45	56
BS-MW4-96-2-15	15			<5	2.5	90	<0.14	1.1	77		11	24	5.6	<0.05	<2.5	87	<0.5	<1	<4	45	41
BS-MW4-96-2-25	25			<5	<0.8	120	0.50	2.1	120		14	32	14	<0.05	<2.5	210	<0.5	<1	<4	43	60
BS-MW4-96-2-35	35			<5	6.2	140	<0.14	<0.5	44		10	29	7.1	0.074	<2.5	57	<0.5	<1	<4	29	53
BS-MW4-96-2-45	45			<5	2.2	280	<0.14	1.7	81		17	44	14	<0.05	<2.5	140	<0.5	<1	<4	38	71
BS-MW4-96-2-55	55			<5	8.1	190	0.39	0.63	44		8.1	31	15	0.11	<2.5	81	<0.5	<1	<4	48	52
BS-MW4-96-2-65.5	65.5			<5	4.5	170	<0.14	<0.5	53		7.4	17	7.9	<0.05	<2.5	61	<0.5	<1	<4	29	44
BS-SB25A-96-1-5.5	5.5	Jul-96	BC	<20	2.9	164	<2	<2	108		24	32	<10	<0.2	<10	**166**	<2	<4	<20	80	57
BS-SB25A-96-1-15.4	15.4			<20	2.2	129	<2	<2	61		13	40	<10	<0.2	<10	76	<2	<4	<20	46	72
BS-SB25A-96-1-25.1	25.1			<20	11	166	<2	<2	111		21	44	<10	<0.2	<10	**182**	2.9	<4	<20	66	88
BS-SB25A-96-1-29.8	29.8			<10	9.4	210	<1	1.1	62		17	50	7.2	<0.2	<5	89	1.2	<2	<10	59	95
BS-SB25A-96-1-34.8	34.8			<10	1.2	174	<1	<1	51		11	33	<5	<0.2	<5	66	1.1	<2	<10	39	65
BS-SB25A-96-1-39.8	39.8			<10	6.7	181	<1	<1	75		20	45	6.3	<0.2	<5	132	1.8	<2	<10	46	83
BS-SB25A-96-2-3.7	3.7			<20	7.8	115	<2	<2	83		18	49	<10	<0.2	<10	**161**	3.4	<4	<20	59	84
BS-SB25A-96-2-8.8	8.8			<10	6.5	104	<1	<1	71		12	40	6.5	<0.2	<5	98	1.5	<2	<10	37	67
BS-SB25A-96-2-13.6	13.6			<20	9.1	168	<2	<2	95		19	62	<10	<0.2	<10	141	2.8	<4	<20	58	101
BS-SB25A-96-2-18.6	18.6			<10	1.4	117	<1	<1	48		13	34	<5	<0.2	<5	62	1.2	<2	<10	36	60
BS-SB25A-96-2-23.5	23.5			<10	1.8	176	<1	<1	70		15	46	6.2	<0.2	<5	88	1.3	<2	<10	51	76
BS-SB25A-96-2-28.5	28.5			<10	<1	126	<1	<1	137		19	40	<5	<0.2	<5	**200**	1.4	<2	<10	52	64

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-SB25A-96-2-33.8	33.8	Jul-96	BC	*<10*	3.9	194	*<1*	*<1*	152		20	59	5.2	*<0.2*	*<5*	**240**	1.6	*<2*	*<10*	67	79
BS-SB25A-96-2-39	39			*<10*	1.1	151	*<1*	*<1*	60		13	41	5.1	*<0.2*	*<5*	75	2.1	*<2*	*<10*	39	64
BS-SB25A-96-3-6	6			*<10*	5.4	98	*<1*	*<1*	59		22	32	6.9	*<0.2*	*<5*	95	1.5	*<2*	*<10*	78	66
BS-SB25A-96-3-10.6	10.6			*<10*	7.0	95	*<1*	*<1*	71		18	31	9.1	*<0.2*	*<5*	106	1.5	*<2*	*<10*	87	66
BS-SB25A-96-3-15.7	15.7			*<10*	3.5	87	*<1*	*<1*	78		21	38	7.9	*<0.2*	*<5*	131	1.5	*<2*	*<10*	77	69
BS-SB25A-96-3-20.6	20.6			*<10*	*<1*	108	*<1*	*<1*	69		14	33	7.7	*<0.2*	*<5*	61	1.4	*<2*	*<10*	61	59
BS-SB25A-96-3-25.8	25.8			*<10*	1.1	93	*<1*	*<1*	77		17	51	8.3	*<0.2*	*<5*	108	1.4	*<2*	*<10*	46	84
BS-SB25A-96-3-35	35			*<10*	6.4	162	*<1*	*<1*	62		12	43	8.8	*<0.2*	*<5*	84	1.6	*<2*	*<10*	46	66
BS-SB25A-96-3-40	40			*<10*	1	145	*<1*	*<1*	59		14	41	7.9	*<0.2*	*<5*	71	1.2	*<2*	*<10*	43	71
BS-SB5-97-1-6	6	Feb-97	BC	*<10*	1.8	162	*<1*	*<1*	94		23	19	*<5*	0.38	*<5*	45	*<1*	*<2*	*<10*	80	42
BS-SB5-97-2-5.1	5.1			*<10*	2.5	138	*<1*	*<1*	50		9.8	111	9.1	*<0.2*	*<5*	43	*<1*	*<2*	*<10*	37	84
BS-SB5-97-3-5.1	5.1			*<10*	1.8	175	*<1*	*<1*	82		26	25	19	*<0.2*	*<5*	76	*<1*	*<2*	*<10*	68	42
BS-SB5-97-3A-6	6			*<10*	1.8	137	*<1*	*<1*	98		19	17	*<5*	*<0.2*	*<5*	39	*<1*	*<2*	*<10*	80	41
BS-SB5-97-4-5.1	5.1			*<10*	1.9	140	*<1*	*<1*	110		18	65	39	*<0.2*	*<5*	90	*<1*	*<2*	*<10*	72	79
BS-SB5-97-5-5	5			*<10*	3.7	147	*<1*	*<1*	85		15	26	25	*<0.2*	*<5*	48	*<1*	*<2*	*<10*	53	63
BS-SB5-97-6-6	6			*<20*	3.2	117	*<2*	*<2*	78		*<10*	17	*<10*	*<0.2*	*<10*	45	*<2*	*<4*	*<20*	51	33
BS-SB5-97-7-6	6			*<10*	1.6	133	*<1*	*<1*	106		16	19	*<5*	*<0.2*	*<5*	64	*<1*	*<2*	*<10*	78	36
BS-SB5-97-8-6	6			*<10*	1.9	144	*<1*	*<1*	120		17	18	*<5*	*<0.2*	*<5*	66	*<1*	*<2*	*<10*	80	36
BS-SB5A-98-1-3.5-38.9	38.9	Apr-98	BC	*<10*	6.4	159	*<1*	*<1*	95		17	49	*<5*	*<0.2*	*<5*	131	*<1*	*<2*	*<10*	73	84
BS-SB52A-98-1-5.6-18.6	18.6	Apr-98	BC	*<10*	*<1*	56	*<1*	*<2*	69		16	31	*<5*	*<0.2*	*<5*	34	*<2*	*<2*	*<10*	47	92
BS-SB52A-98-1-29.2-58.5	58.5			*<10*	4.4	153	*<1*	*<2*	69		20	35	*<5*	*<0.2*	*<5*	81	*<2*	*<2*	*<10*	68	87
BS-SB25A-98-2Comp		Aug-98	BC	*<20*	6.4	117	*<2*	*<2*	85		20	39	11	*<0.2*	*<10*	139	*<2*	*<4*	*<20*	68	70
BS-MW52A-98-8Comp		Sep-98	BC	*<10*	1.8	119	1.0	*<2*	81		20	21	8.1	*<0.2*	*<5*	48	*<2*	*<2*	*<10*	79	53
BS-MW52-98-9Comp		Sep-98	BC	*<10*	2.1	148	*<1*	1.5	87		18	23	8.7	*<0.2*	*<5*	46	*<1*	*<2*	*<10*	85	61
BS-MW25-98-10Comp		Sep-98	BC	*<10*	*<1*	85	*<1*	1.5	55		20	23	6.6	*<0.2*	*<5*	34	*<1*	*<2*	*<10*	43	69
BS-MW25A-99-5-Comp		Jul-99	BC	*<10*	1.9	99	*<1*	*<1*	79		16	24	*<5*	*<0.2*	*<5*	114	*<1*	*<2*	*<10*	67	52
Other soil sampling not associated with groundwater plumes																					
BS-SB6-96-2-6	6	Nov-96	BC	*<10*	2.7	180	*<1*	*<1*	96		19.0	36	5.9	*<0.2*	*<5*	58	*<1*	*<2*	*<10*	70	74
BS-SB6-96-2-15.7	15.7			*<10*	2.2	92	*<1*	*<1*	74		18.0	40	*<5*	*<0.2*	*<5*	39	*<1*	*<2*	*<10*	57	72
BS-SB6-96-2-35	35			*<20*	*<2*	113	*<2*	*<2*	62		23.0	75	*<10*	*<0.2*	*<10*	38	*<2*	*<4*	*<20*	55	116
BS-SB6-96-2-43	43			*<10*	*<1*	78	*<1*	*<1*	66		23.0	50	*<5*	*<0.2*	*<5*	33	*<1*	*<2*	*<10*	39	94
BS-SB6-96-2-55	55			*<10*	4.4	201	*<1*	*<1*	51		8.9	51	5.5	*<0.2*	*<5*	59	*<1*	*<2*	*<10*	37	79

Table B3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS53W3-98Redo		Jul-98	BC						80	0.2											
SS-53Slope-98-1-2.9	2.9	Oct-98	BC							0.3											
SS-53Slope-98-2-3	3									0.2											
SS-53Slope-98-3-2.5	2.5									0.5											
SS-53Slope-98-4-2.5	2.5									0.1											
SS-53Slope-98-5-3.2	3.2									0.6											
BS-MP7-99-1A-8.75	8.75	Feb-99	BC	*<10*	1.5	139	*<1*	*<1*	79		21	42	*<5*	*<0.2*	*<5*	39	1.5	*<2*	*<10*	85	71
BS-MP7-99-1A-18.75	18.75			*<10*	*<1*	51	*<1*	*<1*	59		15	8.6	*<5*	*<0.2*	*<5*	28	*<1*	*<2*	*<10*	39	52
BS-MP7-99-2A-8.5	8.5			*<10*	1.3	115	*<1*	*<1*	69		15	32	7.9	11	*<5*	44	*<1*	*<2*	*<10*	66	73
BS-MP7-99-2A-18.5	18.5			*<10*	1.3	72	*<1*	*<1*	61		18	19	*<5*	1.1	*<5*	31	*<1*	*<2*	*<10*	51	56
BS-MP7-99-2A-28.8	28.8			*<10*	*<1*	53	*<1*	*<1*	56		15	14	*<5*	*<0.2*	*<5*	23	*<1*	*<2*	*<10*	47	52
BS-MP7-99-1B-8.8	8.8			*<10*	2.1	218	1.0	1.2	81		19	21	*<5*	*<0.2*	*<5*	39	*<1*	*<2*	*<10*	86	50
BS-MP7-99-1B-18.5	18.5			*<10*	2.0	143	*<1*	1.2	87		19	43	11	*<0.2*	*<5*	41	*<1*	*<2*	*<10*	84	75
BS-MP7-99-1B-29	29			*<10*	*<1*	40	*<1*	*<1*	41		18	9.1	*<5*	*<0.2*	*<5*	19	*<1*	*<2*	*<10*	30	61
BS-MP7-99-1B-39	39			*<10*	*<1*	72	*<1*	*<1*	134	*<0.1*	21	46	*<5*	*<0.2*	*<5*	**200**	*<1*	*<2*	*<10*	66	61
BS-MP7-99-1B-48.5	48.5			*<10*	1.6	81	*<1*	1.4	192	*<0.1*	24	40	*<5*	*<0.2*	*<5*	**313**	*<1*	*<2*	*<10*	75	68
BS-MP7-99-2B-8.6	8.6			*<10*	2.2	78	*<1*	1.1	36		16	29	*<5*	*<0.2*	*<5*	22	*<1*	*<2*	*<10*	96	69
BS-MP7-99-2B-19	19			*<10*	1.8	125	*<1*	1.0	76		23	28	5.0	*<0.2*	*<5*	61	*<1*	*<2*	*<10*	92	52
BS-MP7-99-2B-28.6	28.6			*<10*	*<1*	62	*<1*	*<1*	45		13	17	*<5*	*<0.2*	*<5*	23	*<1*	*<2*	*<10*	37	49
BS-MP7-99-2B-38.5	38.5			*<10*	*<1*	97	*<1*	1.1	61		19	15	*<5*	*<0.2*	*<5*	31	*<1*	*<2*	*<10*	54	55
BS-MP7-99-2B-48.7	48.7			*<10*	3.1	88	*<1*	1.0	89		19	38	5.0	*<0.2*	*<5*	190	*<1*	*<2*	*<10*	56	67

BC = Analysis by BC Laboratories
C = Analysis by Chromalab
CLS = Analysis by California Laboratory Services
Q = Analysis by Quanteq Laboratories

	= Not analyzed
258	= Concentration above background and PRG
<	= Not detected above reporting limit

LBNL = Analysis by Lawrence Berkeley Lab
X = Sample location has been excavated
*Metal is a Contaminant of Potential Concern

Table B3.1-1
Soil Sampling Results (mg/kg)*
SWMU 2-1: Former Building 7 Plating Shop
Concentrations of Organic Constituents
COPCs: Acids, solvents, cyanide, caustics

				VOCs				SVOCs	PCBs			Fuels	Oil & Grease	Cyanide	pH
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected		Aroclor 1242	Aroclor 1254	Aroclor 1260				
			PRG	43	5.7	2.8			0.22	0.22	0.22				
Sample ID	Depth (ft)	Date	Lab												
SS7N-1-0 X	0	Oct-92	C	<0.005	0.11	<0.005			<0.005	0.089	<0.005		47		
SS7N-2-0 X	0			<0.005	**14**	<0.005	Carbon tetrachloride=0.035 1,1,1-TCA=0.27		<0.005	0.21	<0.005		180		
SS7N-3-0 X	0			<0.005	**1500**	2.1	**Carbon tetrachloride=7.2** 1,1-DCA=1.3 **1,1-DCE=0.35** Toluene=0.1 1,1,1-TCA=58	1,2,4-TCB=0.11							
SS-7BNE-96-1-0.5	0.5	Jun-96	CLS						<0.01	<0.01	0.04	Crude/Waste Oil=1100		<1	8.23
SS-7BNE-96-1-2	2			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	Crude/Waste Oil=78		<1	7.79
SS-7BNE-96-2-1 X	1								<0.01	<0.01	<0.01	Crude/Waste Oil=930		<1	7.35
SS-7BNE-96-2-2 X	2			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	Diesel=4.9		<1	7.00
SS-7BE-96-3-1	1	Jun-96	CLS						<0.01	**0.23**	<0.01	Crude/Waste Oil=730		<1	7.11
SS-7BE-96-3-2	2			<0.005	0.0057	<0.005			<0.01	<0.01	<0.01	Crude/Waste Oil=130		<1	6.93
SS-7BE-96-4-1 X	1								<0.01	<0.01	<0.01	Crude/Waste Oil=34		<1	7.70
SS-7BE-96-4-2	2			<0.005	<0.005	<0.005			<0.01	0.01	<0.01	Crude/Waste Oil=19		<1	7.26
SS-7BS-96-1-0.5 X	0.5	Jun-96	CLS	<0.005	0.015	<0.005								1.2	8.33
SS-7BS-96-1-1.5 X	1.5			0.011	0.043	0.11	trans-1,2-DCE=0.0065							<1	8.55
SS-7BS-96-1-2.5 X	2.5	Jul-96		<0.005	0.0089	<0.005								2.1	8.43
SS-7BS-96-2-0.5 X	0.5	Jun-96		<0.005	0.19	0.017								4	8.10
SS-7BS-96-2-1.5 X	1.5			<0.005	0.56	0.13	1,1,1-TCA=0.010							<1	8.70
SS-7BS-96-3-0.5 X	0.5			<0.005	0.16	0.022								11.2	8.84
SS-7BS-96-3-1.5 X	1.5			0.024	1.2	0.061								<1	8.87
SS-7BS-96-3-2.75 X	2.75	Jul-96		0.72	**16**	0.97	1,1-DCE=0.030 trans-1,2-DCE=0.027 toluene=0.011 **vinyl chloride=0.097**							<1	8.17
SS-7BS-96-3-4 X	4.0			0.36	**21**	1.1	trans-1,2-DCE=0.012 p-isopropyltoluene=0.015 vinyl chloride=0.015							24	8.30
SS-7BS-96-4-0.5 X	0.5	Jun-96		<0.005	0.023	0.0062								39	8.90
SS-7BS-96-4-1.5 X	1.5			0.12	**8.6**	0.69								10.5	8.39
SS-7BS-96-4-3 X	3.0	Jul-96		0.68	**110**	4.9	trans-1,2-DCE=0.032							15.5	7.63
SS-7BS-96-5-0.5 X	0.5	Jun-96		<0.005	<0.005	<0.005								<1	8.61
SS-7BS-96-5-1.5 X	1.5			0.097	**10**	**10**	hexachlorobutadiene=0.35							57	8.33
SS-7BS-96-5-3.1 X	3.1	Jul-96		0.99	**180**	**110**	trans-1,2-DCE=0.055 ethyl benzene=0.0077 Toluene=0.014, Xylenes=0.021 1,2,4-Trimethylbenzene=0.0053							1.4	7.88

Table B3.1-1
Soil Sampling Results (mg/kg)*
SWMU 2-1: Former Building 7 Plating Shop
Concentrations of Organic Constituents
COPCs: Acids, solvents, cyanide, caustics

				VOCs				SVOCs	PCBs			Fuels	Oil & Grease	Cyanide	pH
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected		Aroclor 1242	Aroclor 1254	Aroclor 1260				
			PRG	43	5.7	2.8			0.22	0.22	0.22				
Sample ID	Depth (ft)	Date	Lab												
SS-7BS-96-5-3.9 X	3.9	Jul-96	CLS	1.3	**94**	**14**	trans-1,2-DCE=0.039 p-isopropyltoluene=1.1 toluene=0.006, vinyl chloride=0.012							25	10.52
SS-7BW-96-6-0.5 X	0.5	Jun-96	CLS	<0.005	0.022	0.018								<1	9.10
SS-7BW-96-6-1.5 X	1.5			<0.005	0.022	0.016								2.3	8.42
BS-SB7PI-96-1-1 X	1.0	Sep-96	BC	<0.005	0.0096	<0.005			<0.01	<0.01	<0.01			<1.0	6.96
BS-SB7PI-96-1-2.5 X	2.5				0.046		Chloromethane=0.0064		<0.01	<0.01	<0.01			<1.0	6.95
BS-SB7PI-96-1-5	5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.38
BS-SB7PI-96-1-10	10			<0.005	<0.005	<0.005								<1.0	7.43
BS-SB7PI-96-1-15	15			<0.005	<0.005	<0.005								<1.0	7.01
BS-SB7PI-96-2-1 X	1.0			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.73
BS-SB7PI-96-2-2.5 X	2.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	8.14
BS-SB7PI-96-2-5	5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.63
BS-SB7PI-96-2-10	10			<0.005	<0.005	<0.005								<1.0	7.22
BS-SB7PI-96-2-15	15			<0.005	<0.005	<0.005								<1.0	7.51
BS-SB7PI-96-3-1 X	1.0			<0.005	0.089	0.0077			<0.01	<0.01	<0.01			<1.0	7.06
BS-SB7PI-96-3-2.5 X	2.5			<0.005	<0.005	<0.005			<0.01	0.031	<0.01			<1.0	7.30
BS-SB7PI-96-3-5	5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.50
BS-SB7PI-96-3-10	10			<0.005	<0.005	<0.005								<1.0	7.40
BS-SB7PI-96-3-15	15			<0.005	0.014	<0.005								<1.0	8.19
BS-SB7PI-96-4-1 X	1.0			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.40
BS-SB7PI-96-4-2.5 X	2.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.70
BS-SB7PI-96-4-5	5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	8.45
BS-SB7PI-96-4-10	10			<0.005	<0.005	<0.005								<1.0	7.32
BS-SB7PI-96-5-1 X	1.0			<0.005	0.062	0.0051			<0.05	**0.43**	<0.05			22	7.75
BS-SB7PI-96-5-2 X	2.0			0.06	**31**	0.71	1,2,4-Trimethylbenzene=0.011 1,3,5-Trimethylbenzene=0.0056		<1	**5.6**	<1			52	7.24
BS-SB7PI-96-6-1 X	1.0			0.031	**9.5**	**3.4**			<0.01	0.069	<0.01			1.5	7.72
BS-SB7PI-96-6-2.5 X	2.5			<0.005	0.0081	0.008			<0.01	<0.01	<0.01			<1.0	7.65
BS-SB7PI-96-6-5 X	5			<0.005	<0.005	<0.005			<0.02	<0.02	<0.02			<1.0	6.70
BS-SB7PI-96-6-10	10			<0.005	<0.005	<0.005								<1.0	7.33
BS-SB7PI-96-6-15	15			<0.005	<0.005	<0.005								<1.0	7.71
BS-SB7PI-96-7-1 X	1.0			0.014	0.15	0.089			<0.05	**0.34**	<0.05			13	7.31
BS-SB7PI-96-7-2 X	2.0			4.2	0.25	1	**Benzene=2.4,** Toluene=0.25		<0.01	0.034	<0.01			<1.0	6.18
BS-SB7PI-96-8-1 X	1.0			2.5	**30**	**170**			<0.01	0.028	<0.01			2.0	8.21
BS-SB7PI-96-8-2.5 X	2.5			0.037	0.0065	0.061	vinyl chloride=0.020		<0.01	<0.01	<0.01			<1.0	7.56
BS-SB7PI-96-8-5	5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<1.0	7.23
BS-SB7PI-96-8-10	10			<0.005	<0.005	<0.005								<1.0	7.15
BS-SB7PI-96-8-15	15			<0.005	<0.005	<0.005								<1.0	7.27
BS-SB7PI-96-9-1 X	1			0.011	0.91	0.12			<0.02	0.14	<0.02			2.2	7.99

Table B3.1-1
Soil Sampling Results (mg/kg)*
SWMU 2-1: Former Building 7 Plating Shop
Concentrations of Organic Constituents
COPCs: Acids, solvents, cyanide, caustics

				VOCs				SVOCs	PCBs			Fuels	Oil & Grease	Cyanide	pH
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected		Aroclor 1242	Aroclor 1254	Aroclor 1260				
			PRG	43	5.7	2.8			0.22	0.22	0.22				
Sample ID	Depth (ft)	Date	Lab												
BS-SB7PI-96-9-2 X	2	Sep-96	BC	1.8	**920**	**110**	Ethyl benzene=0.22 Naphthalene=0.18 n-Propylbenzene=0.039 Toluene=0.56 1,2,4-Trimethylbenzene=0.42 1,3,5-Trimethylbenzene=0.098 total xylenes=1.3		<0.05	**2.6**	<0.05			369	5.49
BS-SB7PI-96-10-1 X	1			<0.005	0.034	<0.005			<0.01	0.047	<0.01			3.9	8.81
BS-SB7PI-96-10A-5 X	5			0.058	<0.005	0.0075	trans-1,2-DCE=0.005 Toluene=0.028, **vinyl chloride=0.037**		<0.01	<0.01	<0.01			<1.0	6.72
BS-SB7PI-96-10A-10	10			0.0057	<0.005	<0.005								<1.0	7.14
BS-SB7PI-96-10A-15	15			<0.005	<0.005	<0.005								<1.0	7.23
BS-SB7PI-96-11-5 X	5			0.18	0.54	0.30	trans-1,2-DCE=0.047 Toluene=0.0082 **vinyl chloride=0.025**		<0.01	<0.01	<0.01			<1.0	6.27
BS-SB7PI-96-11-10	10			0.0064	<0.005	<0.005								<1.0	7.09
BS-SB7PI-96-11-15	15			<0.005	0.67	<0.005								<1.0	7.44
BS-SB7PI-96-11-20	20			<0.005	0.016	<0.005								<1.0	7.59
BS-SB7PI-96-11-25	25			<0.005	<0.005	<0.005								<1.0	7.55
BS-SB7PI-96-11-30	30			<0.005	<0.005	<0.005								<1.0	7.84
SS-7BW-97-1	1	Mar-97	BC	<0.005	<0.005	<0.005									
SS-7BEXC-97-1-2.1 X	2.1	Aug-97	BC						<0.2	**1.2**	<0.2				
SS-7BEXC-97-2-3.6	3.6								<0.01	0.11	<0.01				
SS-7BPL-98-1-8	8	Aug-98	BC	<0.005	0.0064	<0.005			<0.01	<0.01	<0.01			<0.050	
SS-7BPL-98-2-4.2	4.2			<0.005	0.021	0.020			<0.01	<0.01	<0.01			<0.48	
SS-7BPL-98-3-6	6			<0.005	<0.005	<0.005	Toluene=0.0062		<0.01	<0.01	<0.01			<0.49	
SS-7BPL-98-4-3 X	3			0.024	<0.005	0.018			<0.01	<0.01	<0.01			1.1	
SS-7BPL-98-5-4 X	4			0.014	0.67	0.25			<0.01	<0.01	<0.01			<0.48	
SS-7BPL-98-6-7 X	7			0.12	0.0053	<0.005	vinyl chloride=0.018		0.18	0.096	<0.01			<0.48	
SS-7BPL-98-7-6	6			0.042	0.026	0.071	1,1-DCA=0.0080 trans-1,2-DCE=0.0055 p-isopropyltoluene=0.0050 Toluene=0.025 vinyl chloride=0.016 Total xylenes=0.011		<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-8-1.5 X	1.5			<0.005	0.032	0.024			<0.02	**1.7**	<0.02			0.46	
SS-7BPL-98-9-2 X	2			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-10-7	7			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.49	
SS-7BPL-98-11-6	6			0.038	<0.005	<0.005			<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-12-7.75	7.75			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.49	

Table B3.1-1
Soil Sampling Results (mg/kg)*
SWMU 2-1: Former Building 7 Plating Shop
Concentrations of Organic Constituents
COPCs: Acids, solvents, cyanide, caustics

				VOCs				SVOCs	PCBs			Fuels	Oil & Grease	Cyanide	pH
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected		Aroclor 1242	Aroclor 1254	Aroclor 1260				
			PRG	43	5.7	2.8			0.22	0.22	0.22				
Sample ID	Depth (ft)	Date	Lab												
SS-7BPL-98-13-1.25 X	1.25	Aug-98	BC	<0.005	0.089	0.018			<0.05	<0.05	<0.05			<0.48	
SS-7BPL-98-14-4.5	4.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.48	
SS-7BPL-98-15-5.5	5.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.45	
SS-7BPL-98-16-4.9	4.9			0.013	0.77	0.20	trans-1,2-DCE=0.0089		<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-17-3.5 X	3.5			<0.005	<0.005	<0.005	Toluene=0.0052		<0.01	<0.01	<0.01			<0.49	
SS-7BPL-98-18-5.25	5.25			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.50	
SS-7BPL-98-19-3	3			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.46	
SS-7BPL-98-20-3	3			<0.005	<0.005	<0.005			<0.01	0.13	<0.01			<0.47	
SS-7BPL-98-21-9	9			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.46	
SS-7BPL-98-22-7	7			0.021	0.62	0.043			<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-23-7	7			0.036	0.32	0.10			<0.01	<0.01	<0.01			<0.47	
SS-7BPL-98-24-7	7			0.044	0.069	0.065			<0.01	<0.01	<0.01			<0.46	
SS-7BPL-98-25-4	4			<0.005	<0.005	<0.005			<0.01	<0.01	0.011			<0.48	
SS-7BPL-98-26-4	4			<0.005	<0.005	<0.005	Toluene=0.0070		<0.01	<0.01	<0.01			<0.45	
SS-7BPL-98-27-3	3			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.48	
SS-7BPL-98-28-2.5 X	2.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.49	
SS-7BPL-98-29-2.5 X	2.5			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.49	
SS-7BPL-98-30-1 X	1			<0.005	0.12	0.024			<0.01	<0.01	0.029			48	
SS-7BPL-98-31-5	5			0.16	0.022	0.064			<0.01	<0.01	<0.01			<0.46	
SS-7BPL-Underpipes X				1.3	**8.2**	0.63	ethylbenzene=0.52 Naphthalene=2.1 1,2,4-Trimethylbenzene=1.5 1,3,5-Trimethylbenzene=0.83 Total xylenes=3.0		<1	<1	<1			297	
SS-7BPl-99-1-2.9	2.9	Jun-99	BC	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-2-2.8	2.8			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-3-2.8	2.8			<0.005	<0.005	<0.005			<0.02	0.21	<0.02			<0.5	
SS-7BPl-99-4-2 X	2			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-5-1.2	1.2			<0.005	<0.005	<0.005			<0.01	0.014	<0.01			<0.5	
SS-7BPl-99-6-1.7	1.7			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-7-1.9	1.9			<0.005	<0.005	<0.005			<0.05	**0.36**	<0.05			<0.5	
SS-7BPl-99-8-2	2			<0.005	<0.005	0.0074	methylene chloride=0.025		<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-9-2	2			0.015	<0.005	0.11	methylene chloride=0.010		<0.01	0.029	<0.01			<0.5	
SS-7BPl-99-10-3	3			<0.005	<0.005	0.025	methylene chloride=0.023		<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-11-4.2	4.2			0.050	0.020	0.25	methylene chloride=0.018		<0.01	0.021	<0.01			<0.5	
SS-7BPl-99-12-4.5	2.5			0.094	0.12	0.90	methylene chloride=0.014		<0.01	<0.01	<0.01			<0.5	
SS-7BPl-99-13-2.8	2.8			<0.005	<0.005	<0.005	methylene chloride=0.013		<0.01	<0.01	<0.01			<0.5	
SS-7N-001-1	3.3	Jan-00	BC	<0.005	0.0051	<0.005			<0.01	<0.01	<0.01				
SS-7N-001-2	3.3			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01				

Table B3.1-1
Soil Sampling Results (mg/kg)*
SWMU 2-1: Former Building 7 Plating Shop
Concentrations of Organic Constituents
COPCs: Acids, solvents, cyanide, caustics

				VOCs				SVOCs	PCBs			Fuels	Oil & Grease	Cyanide	pH
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected		Aroclor 1242	Aroclor 1254	Aroclor 1260				
			PRG	43	5.7	2.8			0.22	0.22	0.22				
Sample ID	Depth (ft)	Date	Lab												
SS-7N-001-3	3.3	Jan-00	BC	<0.005	0.007	<0.005			<0.01	<0.01	<0.01				
SS-7N-001-4	3.3			<0.005	<0.005	<0.005			<0.01	<0.01	<0.01				

<	= Not detected above reporting limit (reporting limit shown)
	= Not analyzed

COPCs = Chemicals of Potential Concern
Concentrations shown in **bold** are above PRGs for residential soil.
X = Sample location has been excavated
BC = Analysis by BC Laboratories
C = Analysis by Chromalab
CLS = Analysis by California Laboratory Services

VOCs analyzed by EPA Method 8240 or 8260
SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
Cyanide analyzed by EPA Method 9012
pH analyzed by EPA Method 9040
*pH reported in standard units
1,2,4-TCB=1,2,4-Trichlorobenzene

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA = 770	Ethylbenzene = 230
1,1-DCA = 590	Hexachlorobutadiene = 6.2
1,1-DCE = 0.054	Methylene chloride = 8.9
1,2,4-Trichlorobenzene = 650	n-Propylbenzene = 140
1,2,4-Trimethylbenzene = 5.7	Naphthalene = 56
1,3,5-Trimethylbenzene = 21	Toluene = 520
Benzene = 0.67	trans-1,2-DCE = 63
Carbon tetrachloride = 0.24	Vinyl chloride = 0.022
Chloroform = 0.24	Xylene = 210
Chloromethane = 1.2	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
B-1-0.5	0.5	1988		ND	ND	0.0037	ND					0.06*	ND						
B-1-3.5	3.5			ND	ND	ND	0.0288					0.022*	ND						
B-2-0.5	0.5			ND	ND	ND	ND					**0.358***	ND						
B-2-4.5	4.5			0.0274	ND	0.0177	0.187					0.112*	ND						
B-3-0.5	0.5			ND	ND	0.0044	ND					ND	ND						
B-3-3.5	3.5			ND	ND	ND	ND					ND	ND						
B-6-1 X	1			ND	ND	ND	ND					**1.913***	ND						
MW-52B-95-13-6	6	Jul-95	BC	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005			<0.01	<0.01			<10	<1		25
MW-52B-95-13-10.3	10.3			<0.005	<0.005	<0.005	<0.01	<0.005	<0.005			<0.01	<0.01			<10	<1		<20
MW-52B-95-13-20.2	20.2			<0.005	<0.005	<0.005	<0.01	<0.005	<0.005			<0.01	<0.01			<10	<1		28
MW-52B-95-13-25.8	25.8			<0.005	<0.005	<0.005	<0.01	<0.005	<0.005			<0.01	<0.01			<10	<1		<20
MW-52B-95-13-30.4	30.4			<0.005	<0.005	<0.005	<0.01	<0.005	<0.005			<0.01	<0.01			<10	<1		<20
SS-52BT-WN-1-0 X	0	Jun-96	BC	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005		ND	**1.1**	<0.1		Crude/Waste Oil=22000				
SS-52BT-WN-1-0.5 X	0.5			<0.005	<0.005	<0.005	<0.01	<0.005	<0.005		ND	**0.3**	<0.1		Crude/Waste Oil=660				
SS-52BT-WN1-1.6 X	1.6	Jul-96	BC												Diesel=420 Crude/Waste Oil=2100			ND	
SS-52BT-WN1-2.3 X	2.3	Jul-96	BC												Diesel=23 Crude/Waste Oil=86			Benzo(a)pyrene=0.0032 Benzo(b)fluoranthene=0.0045 Benzo(ghi)perylene=0.0009 Benzo(k)fluoranthene=0.0010 Fluoranthene=0.0038 Ideno(1,2,3-c)pyrene=0.0014 Phenanthrene=0.0018	
SS-52BT-WN-1-3 X	3	Oct-96	CLS									0.12	<0.02						
SB52BT-97-WN1-4.9 X	4.9	Mar-97	BC									<0.01	<0.01		Diesel=2.5 Crude/Waste Oil=6.3				
SS-52BT-WN-2-0 X	0	Jun-96	BC	0.006	<0.005	0.0067	0.033	0.054	0.016	p-isopropyltoluene=0.0072 naphthalene=0.15 n-propylbenzene=0.0055 1,1,1-TCA=0.0064	ND	**1.9**	<0.2		Diesel=2800, Crude/Waste Oil=5900				
SS-52BT-WN-2-0.5 X	0.5	Jun-96	BC	<0.07	<0.07	0.11	0.32	0.48	0.15	p-isopropyltoluene=0.083 naphthalene=0.24 n-propylbenzene=0.076	ND	**2.9**	<0.3		Diesel=930, Crude/Waste Oil=1800				
SS-52BT-WN2-1.5 X	1.5	Jul-96	BC												Diesel=5700 Crude/Waste Oil=3800			ND	
SS-52BT-WN-2-2 X	2	Oct-96	CLS									0.2	<0.02						
SS-52BT-WN-3-0 X	0	Jun-96	BC	<0.07	<0.07	<0.07	<0.2	0.20	0.075	p-isopropyltoluene=0.074 naphthalene=0.13	ND	**2.7**	<0.3		Diesel=1700, Crude/Waste Oil=3700				
SS-52BT-WN-3-0.5 X	0.5	Jun-96	BC	<0.06	<0.06	0.060	<0.2	0.20	0.067	sec-butylbenzene=0.067 p-isopropyltoluene=0.18 naphthalene=0.14 n-propylbenzene=0.60	ND	**2.2**	<0.2		Diesel=1800, Crude/Waste Oil=2500				
SS-52BT-WN-3-1 X	1	Oct-96	CLS									**0.27**	<0.04						
SS-52BT-WN-4-0 X	0	Jun-96	BC	<0.07	<0.07	0.48	1.2	1.6	0.49	n-butylbenzene=0.59 sec-butylbenzene=0.29 ethylbenzene=0.20 Isopropylbenzene=0.12 p-isopropyltoluene=0.36 naphthalene=0.65 n-propylbenzene=0.31 1,2,4-Trichlorobenzene=0.17 1,1,1-TCA=0.12	ND	**2.4**	<0.2		Diesel=2900, Crude/Waste Oil=5800				
SS-52BT-WN-4-0.5 X	0.5	Jun-96	BC	<0.07	<0.07	0.13	0.48	0.91	0.30	n-butylbenzene=0.64 sec-butylbenzene=0.32 ethylbenzene=0.099 Isopropylbenzene=0.10 p-isopropyltoluene=0.40 naphthalene=0.50 n-propylbenzene=0.26 1,2,4-Trichlorobenzene=0.12	ND	**0.29**	<0.05		Diesel=2100, Crude/Waste Oil=3400				
SS-52BT-WN4-1.6 X	1.6	Jul-96	BC												Diesel=7500 Crude/Waste Oil=5400			Benzo(b)fluoranthene=0.0002 Fluoranthene=0.0003 Phenanthrene=0.010	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
SS-52BT-WN4-2.4 X	2.4	Jul-96	BC												Diesel=2300 Crude/Waste Oil=8000			Fluoranthene=0.0002 Fluorene=0.062 Phenanthrene=0.16	
SS-52BT-WN4-3.5 X	3.5	Jul-96	BC												Diesel=450 Crude/Waste Oil=2200			Benzo(a)pyrene=0.0001 Benzo(b)fluoranthene=0.0003 Benzo(k)fluoranthene=0.0001 Fluorene=0.0002	
SS-52BT-WN-4-4 X	4	Oct-96	CLS									0.031	<0.2						
SS-52BT-WN-5-0 X	0	Jun-96	BC	<0.07	<0.07	0.31	0.90	1.3	0.39	n-butylbenzene=0.52 sec-butylbenzene=0.26 ethylbenzene=0.17 Isopropylbenzene=0.11 p-isopropyltoluene=0.31 methylene chloride=0.49 naphthalene=0.57 n-propylbenzene=0.27	ND	**1.9**	<0.2		Diesel=2500, Crude/Waste Oil=4900				
SS-52BT-WN-5-0.5 X	0.5	Jun-96	BC	<0.06	<0.06	0.18	0.59	1.1	0.34	n-butylbenzene=0.71 sec-butylbenzene=0.37 1,1-DCA=0.067 ethylbenzene=0.12 Isopropylbenzene=0.13 p-isopropyltoluene=0.42 naphthalene=0.48 n-propylbenzene=0.30 1,2,4-Trichlorobenzene=0.10	ND	**0.40**	<0.05		Diesel=1400, Crude/Waste Oil=1300				
SS-52BT-WN5-1.5 X	1.5	Jul-96	BC												Diesel=170 Crude/Waste Oil=430			ND	
SS-52BT-WN5-2.5 X	2.5	Jul-96	BC												Diesel=56 Crude/Waste Oil=500			Benzo(a)pyrene=0.0014 Benzo(b)fluoranthene=0.0031 Benzo(ghi)perylene=0.0005 Benzo(k)fluoranthene=0.0006 Fluoranthene=0.0021 Ideno(1,2,3-c)pyrene=0.0008 Phenanthrene=0.0012	
SS-52BT-WN5-3Comp X		Jul-96	BC												Crude/Waste Oil=110			Benzo(a)pyrene=0.006 Benzo(b)fluoranthene=0.0093 Benzo(k)fluoranthene=0.0021 Fluoranthene=0.0098 Ideno(1,2,3-c)pyrene=0.0031 Phenanthrene=0.0046	
SS-52BT-WN-5-3 X	3	Oct-96	CLS									0.049	<0.2						
SS-52BT-WN-6-0 X	0	Jun-96	BC	<0.07	<0.07	<0.07	<0.2	<0.07	<0.07	ND	ND	**1.4**	<0.2		Diesel=970, Crude/Waste Oil=3500				
SS-52BT-WN-6-0.5 X	0.5	Oct-96	CLS									**3.7**	<1.0						
SS-52BT-WE-1-0 X	0	Jun-96	BC	<0.07	<0.07	0.31	1.1	1.8	0.54	n-butylbenzene=0.74 sec-butylbenzene=0.36 ethylbenzene=0.21 Isopropylbenzene=0.14 p-isopropyltoluene=0.46 naphthalene=0.68 n-propylbenzene=0.34 1,2,4-Trichlorobenzene=0.10	ND	**1.6**	<0.2		Diesel=3200				
SS-52BT-WE-1-0.5 X	0.5	Jun-96	BC	<0.07	<0.07	0.28	0.79	1.3	0.37	n-butylbenzene=0.57 sec-butylbenzene=0.28 1,1-DCA=0.087 ethylbenzene=0.16 Isopropylbenzene=0.11 p-isopropyltoluene=0.32 naphthalene=0.56 n-propylbenzene=0.26 1,2,4-Trichlorobenzene=0.086	ND	**0.28**	<0.05		Diesel=1100 Crude/Waste Oil=1500				
SS-52BT-WE-1-1 X	1	Oct-96	CLS									<0.1	**0.45**						

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

					VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
					PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
				PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID		Depth (ft)	Date	Lab																
SS-52BT-WE-2-0	X	0	Jun-96	BC	0.17	<0.07	0.10	0.59	0.97	0.35	n-butylbenzene=0.65 sec-butylbenzene=0.35 ethylbenzene=0.14 Isopropylbenzene=0.11 p-isopropyltoluene=0.48 naphthalene=0.54 n-propylbenzene=0.27	ND	0.12	<0.2		Diesel=690				
SS-52BT-WE-2-1	X	1	Oct-96	CLS									0.17	<0.2						
SS-52BT-WE-3-0	X	0	Jun-96	BC	<0.06	<0.06	0.068	0.61	1.7	0.54	n-butylbenzene=0.39 sec-butylbenzene=0.19 ethylbenzene=0.11 Isopropylbenzene=0.082 p-isopropyltoluene=0.22 naphthalene=0.66 n-propylbenzene=0.23	ND	**2.9**	<0.3		Diesel=3300 Crude/Waste Oil=5600				
SS-52BT-WE-3-0.5	X	0.5	Jun-96	BC	<0.005	<0.005	<0.005	<0.01	0.032	0.009	naphthalene=0.014	ND	**0.86**	<0.1		Diesel=1200 Crude/Waste Oil=2000				
SS-52BT-WE3-1.5	X	1.5	Jun-96	BC												Diesel=13 Crude/Waste Oil=29			ND	
SS-52BT-WE3-2.6	X	2.6	Jul-96	BC												Crude/Waste Oil=19			Benzo(a)pyrene=0.0093 Benzo(b)fluoranthene=0.013 Benzo(k)fluoranthene=0.0031 Chrysene=0.013 Fluoranthene=0.018 Ideno(1,2,3-c)pyrene=0.0045 Phenanthrene=0.0095	
SS-52BT-WE-3-3	X	3	Oct-96	CLS									<0.2	0.036						
SB52BT-97-WE3-4.6	X	4.6	Mar-97	BC									0.015	<0.01		Diesel=5.8 Crude/Waste Oil=21				
SS-52BT-F-1-0	X	0	Jun-96	BC	0.11	<0.07	0.66	1.8	1.8	0.45	Benzene=0.087 sec-butylbenzene=0.15 ethylbenzene=0.34 Isopropylbenzene=0.074 p-isopropyltoluene=1.4 naphthalene=0.86 n-propylbenzene=0.19	ND	**1.3**	<0.2		Diesel=2800				
SS-52BT-F-1-0.5	X	0.5	Jun-96	BC	<0.06	<0.06	0.130	<0.2	0.20	<0.06	p-isopropyltoluene=0.066 naphthalene=0.14	**Benz(a)anthracene=75** **Benzo(b)fluoranthene=120** **Benzo(k)fluoranthene=42** **Benzo(a)pyrene=100** Benzo(ghi)perylene=57 **Chrysene=86** **Dibenzo(a,h)anthracene=12** Fluoranthene=110 **Indeno(1,2,3-cd)pyrene=60** Phenanthrene=33 Pyrene=130	**0.78**	<0.1		Diesel=620 Crude/Waste Oil=940				
SS-52BT-F1-1.4	X	1.4	Jul-96	BC												Diesel=410 Crude/Waste Oil=280			Benzo(a)pyrene=0.001 Benzo(b)fluoranthene=0.0015 Benzo(k)fluoranthene=0.0003 Fluoranthene=0.0013 Ideno(1,2,3-c)pyrene=0.0006 Phenanthrene=0.0008	
SS-52BT-F1-2.3	X	2.3	Jul-96	BC												Diesel=760 Crude/Waste Oil=570			Benzo(a)pyrene=0.0005 Benzo(b)fluoranthene=0.0011 Benzo(k)fluoranthene=0.0003 Fluoranthene=0.0017 Phenanthrene=0.0038	
SS-52BT-F1-3	X	3	Oct-96	CLS									**0.23**	<0.1						
SB52BT-97-F1-3.5	X	3.5	Mar-97	BC									**0.36**	<0.05		Diesel=170 Crude/Waste Oil=91				

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
SB52BT-97-F2-0.5 X	0.5	Mar=97	BC									**0.66**	<0.1		Diesel=1100 Crude/Waste Oil=940			Benzo(a)anthracene=0.27 Benzo(b)fluoranthene=0.27 Benzo(k)fluoranthene=0.12 Chrysene=0.29 Fluoranthene=0.49 Ideno(1,2,3-cd)pyrene=0.11 Phenanthrene=0.12 Pyrene=0.67	
SB52BT-97-F2-2.1 X	2.1	Mar-97	BC									**1.3**	<0.3		Diesel=800 Crude/Waste Oil=780			Phenanthrene=0.0042	
SB52BT-97-F2-4.7 X	4.7	Mar-97	BC									**0.38**	<0.1		Diesel=870 Crude/Waste Oil=710			Fluoranthene=0.014 Phenanthrene=0.011	
SB52BT-97-F3-0.7 X	0.7	Mar-97	BC									**0.91**	<0.1		Diesel=640 Crude/Waste Oil=620			ND	
SB52BT-97-F3-1.9 X	1.9	Mar-97	BC									**1.7**	<0.3		Diesel=290 Crude/Waste Oil=290			ND	
SB52BT-97-F3-3 X	3	Mar-97	BC									**1.7**	<0.3		Diesel=510 Crude/Waste Oil=530			Phenanthrene=0.0081	
SB52BT-97-F4-1.4 X	1.4	Mar-97	BC									0.04	<0.01		Diesel=150 Crude/Waste Oil=230			Fluoranthene=0.025 Fluorene=0.024	
SB52BT-97-F4-2.5 X	2.5	Mar-97	BC									0.02	<0.01		Diesel=45 Crude/Waste Oil=75			ND	
SB52BT-97-F4-4.8 X	4.8	Mar-97	BC									**0.29**	<0.05		Diesel=670 Crude/Waste Oil=730			Fluorene=0.014 Phenanthrene=0.028	
SS-52BEXC-EWA X		Sep-97	BC			<0.005	<0.01					<0.01	<0.01	ND	Crude/Waste Oil=630			Anthracene=3.6 **Benzo(a)anthracene=5.7** Chrysene=5.2 Fluoranthene=18 Phenanthrene=11 Pyrene=22	
SS-52BEXC-EWB X		Sep-97	BC			<0.005	<0.01					<0.01	<0.01	ND	Crude/Waste Oil=30			Anthracene=0.037 Benzo(a)anthracene=0.17 Benzo(a)pyrene=0.21 Benzo(b)fluoranthene=0.16 Benzo(ghi)perylene=0.16 Benzo(k)fluoranthene=0.09 Chrysene=0.23 Fluoranthene=0.25 Ideno(1,2,3-cd)pyrene=0.17 Phenanthrene=0.11 Pyrene=0.29	
SS-52BEXC-EWC		Sep-97	BC									<0.01	<0.01	ND	ND			ND	
SS-52BEXC-EWD		Sep-97	BC									<0.01	<0.01	ND	ND			ND	
SS-52BEXC-EWE		Sep-97	BC															Benzo(a)anthracene=0.037 Benzo(a)pyrene=0.051 Benzo(b)fluoranthene=0.047 Benzo(k)fluoranthene=0.021 Chrysene=0.053 Fluoranthene=0.053 Phenanthrene=0.018 Pyrene=0.084	
SS-52BEXC-EWF		Sep-97	BC												Diesel=120			Benzo(a)anthracene=0.040 Benzo(a)pyrene=0.052 Benzo(b)fluoranthene=0.058 Benzo(ghi)perylene=0.027 Benzo(k)fluoranthene=0.024 Chrysene=0.058 Fluoranthene=0.056	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
																		Phenanthrene=0.012 Pyrene=0.089	
SS-52BEXC-SWA X		Sep-97	BC									0.085	<0.01	ND	Crude/Waste Oil=53			ND	
SS-52BEXC-SWB X		Sep-97	BC									**0.26**	<0.05	ND	Crude/Waste Oil=190			Anthracene=0.45 **Benzo(a)anthracene=1.7** Benzo(a)pyrene=1.6 **Benzo(b)fluoranthene=1.3** Benzo(ghi)perylene=0.87 Benzo(k)fluoranthene=0.77 Chrysene=2.4 Fluoranthene=2.7 Ideno(1,2,3-cd)pyrene=1.2 Phenanthrene=1.3 Pyrene=3.7	
SS-52BEXC-SWC		Sep-97	BC									<0.01	<0.01	ND	ND			ND	
SS-52BEXC-SWD		Sep-97	BC									<0.01	<0.01	ND	ND			ND	
SS-52BEXC-SWE		Sep-97	BC									<0.01	<0.01		Crude/Waste Oil=27			Benzo(a)anthracene=0.35 **Benzo(a)pyrene=0.50** Benzo(b)fluoranthene=0.46 Benzo(k)fluoranthene=0.32 Chrysene=0.62 Fluoranthene=0.58 Ideno(1,2,3-cd)pyrene=0.35 Phenanthrene=0.17 Pyrene=0.62	
SS-52BEXC-SWF		Sep-97	BC									<0.01	<0.01					Benzo(a)anthracene=0.021 Benzo(a)pyrene=0.023 Benzo(b)fluoranthene=0.030 Benzo(k)fluoranthene=0.013 Chrysene=0.029 Fluoranthene=0.030 Phenanthrene=0.0085 Pyrene=0.025	
SS-52BEXC-WWA X		Sep-97	BC									0.14	<0.02	ND	Crude/Waste Oil=130 Diesel=97			Anthracene=0.0072 Benzo(a)anthracene=0.025 Benzo(a)pyrene=0.028 Benzo(b)fluoranthene=0.021 Benzo(ghi)perylene=0.021 Benzo(k)fluoranthene=0.016 Chrysene=0.030 Fluoranthene=0.013 Ideno(1,2,3-cd)pyrene=0.025 Phenanthrene=0.019 Pyrene=0.05	
SS-52BEXC-WWB X		Sep-97	BC									0.19	<0.05	Ethylbenzene=0.007 Xylenes=0.021	Crude/Waste Oil=600 Diesel=580			Anthracene=0.0031 Benzo(a)anthracene=0.029 Chrysene=0.011 Fluoranthene=0.019 Phenanthrene=0.014	
SS-52BEXC-WWC		Sep-97	BC									**1.9**	<0.5					Anthracene=0.0045 Benzo(a)anthracene=0.026 Chrysene=0.017 Fluoranthene=0.034 Phenanthrene=0.018 Pyrene=0.047	
SS-52BEXC-WWD		Sep-97	BC									**0.46**	<0.1					Anthracene=0.012 Fluoranthene=0.090 Phenanthrene=0.059	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
																		Pyrene=0.20	
SS-52BEXC-NWA		Sep-97	BC									<0.01	<0.01	ND	Crude/Waste Oil=33			ND	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
SS-52BEXC-NWB		Sep-97	BC									<0.01	<0.01	ND	Crude/Waste Oil=110 Diesel=74			Anthracene=0.0055 Benzo(a)pyrene=0.038 Benzo(b)fluoranthene=0.048 Benzo(ghi)perylene=0.027 Benzo(k)fluoranthene=0.022 Ideno(1,2,3-cd)pyrene=0.037 Phenanthrene=0.015	
SS-52BEXC-FA X		Sep-97	BC									0.19	<0.01	ND	Crude/Waste Oil=590 Diesel=940			Anthracene=0.0047 Benzo(a)anthracene=0.033 Fluoranthene=0.063 Phenanthrene=0.031	
SS-52BEXC-FB		Sep-97	BC									0.035	<0.01	ND	Crude/Waste Oil=240 Diesel=440			Anthracene=0.0044 Chrysene=0.016 Phenanthrene=0.029	
SS-52BEXC-FC		Sep-97	BC									0.012	<0.01	ND	Crude/Waste Oil=29			Anthracene=0.0027 Benzo(a)anthracene=0.014 Benzo(a)pyrene=0.015 Benzo(b)fluoranthene=0.031 Benzo(k)fluoranthene=0.023 Chrysene=0.017 Fluoranthene=0.024 Ideno(1,2,3-cd)pyrene=0.013 Phenanthrene=0.0072	
SS-52BEXC-FD X		Sep-97	BC									0.069	<0.01	ND	Crude/Waste Oil=410			Anthracene=0.0049 Benzo(a)pyrene=0.017 Benzo(b)fluoranthene=0.011 Benzo(k)fluoranthene=0.0096 Chrysene=0.037 Fluoranthene=0.023 Phenanthrene=0.015	
SS-52BEXC-FE		Sep-97	BC									<0.01	<0.01					ND	
SS-52BEXC-FF		Sep-97	BC									<0.01	<0.01					ND	
SS-52BEXC-FG		Sep-97	BC									0.028	<0.01					ND	
SS-52BEXC-FH		Sep-97	BC									**0.74**	<0.2					Anthracene=0.0038 Benzo(a)anthracene=0.016 Fluoranthene=0.025 Phenanthrene=0.016 Pyrene=0.044	
SS-53A-97-1-4.9	4.9	Sep-97	BC	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	ND		<0.01	<0.01		Crude/Waste Oil=41			Anthracene=0.053 Benzo(a)anthracene=0.24 **Benzo(a)pyrene=0.31** Benzo(b)fluoranthene=0.28 Benzo(ghi)perylene=0.37 Benzo(k)fluoranthene=0.19 Chrysene=0.37 Fluoranthene=0.44 Ideno(1,2,3-cd)pyrene=0.31 Phenanthrene=0.15 Pyrene=0.51	
SS-53A-97-2-8	8	Sep-97	BC	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	ND		<0.01	<0.01		Crude/Waste Oil=28			Anthracene=0.0026 Benzo(a)anthracene=0.018 Benzo(a)pyrene=0.022 Benzo(b)fluoranthene=0.015 Benzo(ghi)perylene=0.029 Benzo(k)fluoranthene=0.013 Chrysene=0.024 Fluoranthene=0.017 Ideno(1,2,3-cd)pyrene=0.021	

Table B3.2-1
Soil Sampling Results (mg/kg)
SWMU 2-2: Building 52B Abandoned Liquid Waste Aboveground Storage Tank
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs							SVOCs	PCBs		BTEX	Fuels	TPH-D	TPH-G	PAHs	Oil & Greas
				PCE	TCE	Toluene	Xylene	1,2,4-TMB	1,3,5-TMB	Other Compounds Detected		Aroclor 1254	Aroclor 1260						
			PRG	5.7	2.8	520	210	5.7	21			0.22	0.22						
Sample ID	Depth (ft)	Date	Lab																
																		Phenanthrene=0.007 Pyrene=0.038	
SB52B-98-1-5.9	5.9	Mar-98	BC									<0.01	<0.01						
SB52B-98-1-10.8	10.8											<0.01	<0.01						
SB52B-98-1-19	19											<0.01	<0.01						

BC = Analysis by BC Laboratories
CLS = Analysis by California Laboratory Services
X = Sample location has been excavated
COPCs = Chemicals of Potential Concern
Concentrations shown in **bold** are above PRGs for residential soil.
*Total PCBs
1,2,4-TMB=1,2,4-Trimethylbenzene
1,3,5-TMB=1,3,5-Trimethylbenzene

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

VOCs analyzed by EPA Method 8240 or 8260
SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
BTEX analyzed by EPA Method 8020
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
PAHs analyzed by EPA Method 8310
Oil & Grease analyzed by EPA Method 413.1

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA = 770
1,1-DCA = 590
1,2,4-Trichlorobenzene = 650
Benzene = 0.67
n-propylbenzene = 140
sec-butylbenzene = 110
Isopropylbenzene = 160
Ethylbenzene = 230
Methylene chloride = 8.9
n-Propylbenzene = 140
Naphthalene = 56
Xylene = 210
Anthracene = 22,000
Benz(a)anthracene = 0.62
Benzo(a)pyrene = 0.062
Benzo(b)fluoranthene = 0.62
Benzo(k)fluoranthene = 6.2
Chrysene = 6.1
Dibenzo(a,h)anthracene = 0.062
Fluorene = 2600
Fluoranthene = 2300
Indeno(1,2,3-cd)pyrene = 0.62
Pyrene = 2300

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS17SW-1/2-1.0	1	Apr-93	C		ND	<1	**14**	<1	38	<1
SS17SW-3-1.5	1.5	May-93	LBNL	ND						
SS17SW-4-1.5	1.5			ND						
SB17-94-01-0.5	0.5	Jun-94	BC	ND		<0.5	<0.5	<0.5	<10	<1
SB17-94-01-5	5			ND		<0.01	<0.01	<0.01	<10	<1
SB17-94-01-9.5	9.5			ND		<0.01	<0.01	<0.01	<10	<1
SB17-94-02-1	1			ND						
SB17-94-02-1.5	1.5					<0.01	<0.01	<0.01	<10	<1
SB17-94-02-5	5			ND						
SB17-94-02-5.5	5.5					<0.01	<0.01	<0.01	<10	<1
SB17-94-02-7	7			ND		<0.01	<0.01	<0.01	<10	<1
SB17-94-03-1	1			ND						
SB17-94-03-1.5	1.5					<0.01	<0.01	<0.01	<10	<1
SB17-94-04-1.5	1.5			ND		<0.01	<0.01	<0.01	<10	<1
SB17-94-04-5.5	5.5			Freon-12=0.0056		<0.01	<0.01	<0.01	<10	<1
SB17-94-04-11	11			Freon-12=0.0054		<0.01	<0.01	<0.01	<10	<1
SB17-94-05-3	3			ND		0.03	<0.01	<0.01	<10	<1
SB17-94-06-5	5			ND		0.09	<0.01	<0.01	<10	<1
SB17-94-07-1	1			ND		<0.01	0.06	<0.01	<10	<1
SB17-94-07-2.5	2.5			ND		<0.1	**0.42**	<0.1	88	2.7
SB17-96-1-1.2	1.2	Aug-96	BC			<0.02	0.17	<0.02	3.9	
SB17-96-2-1.1	1.1					<0.01	<0.01	<0.01	2.2	
SB17-96-2-3.4	3.4					<0.01	<0.01	<0.01	<2	
SB17-96-3-1.1	1.1					<0.01	0.061	<0.01	2.5	
SB17-96-3-4	4					<0.01	<0.01	<0.01	<2	
SB17-96-4-1.3	1.3					<0.01	0.02	<0.01	7.8	

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SB17-96-5-1	1	Aug-96	BC			<0.01	<0.01	<0.01	<2	
SB17-96-6-1.2	1.2					<0.01	<0.01	<0.01	2	
SB17-96-6-3.9	3.9					<0.01	<0.01	<0.01	<2	
SB17-96-7-1.2	1.2					<0.01	<0.01	<0.01	14	
SB17-96-7-3.1	3.1					<0.01	<0.01	<0.01	5.9	
SB17-96-8-1.1	1.1					<1	**6.8**	<1	11	
SB17-96-8-4	4					<1	**3.2**	<1	2.4	
SB17-96-9-1.2	1.2					<0.05	0.16	<0.05	2	
SB17-96-9-2	2					<0.05	0.11	<0.05	<2	
SB17-96-10-1.2	1.2					<0.01	**0.35**	<0.01	<2	
SB17-96-10-3.2	3.2					<0.01	<0.01	<0.01	<2	
SB17-97-1-0.5	0.5	Mar-97	BC			<0.01	0.012	<0.01	9.4	
SB17-97-1-2	2					<0.01	<0.01	<0.01	4.8	
SB17-97-1-3.1	3.1					<0.01	<0.01	<0.01	1.2	
SB17-97-2-0.5	0.5					<0.02	0.17	<0.02	9.4	
SB17-97-2-2	2					<0.01	0.02	<0.01	2.3	
SB17-97-2-5	5					<0.01	<0.01	<0.01	2.3	
SB17-97-3-0.7	0.7					<0.01	<0.01	<0.01	7.8	
SB17-97-3-2.2	2.2					<0.01	<0.01	<0.01	1.4	
SB17-97-3-5	5								3.1	
SB17-97-4-2.1	2.1					<0.01	0.031	<0.01	6.8	
SB17-97-4-5	5					<0.01	<0.01	<0.01	7.3	
SB17-97-4-8.7	8.7					<0.01	<0.01	<0.01	12	
SB17-97-5-1.9	1.9					<0.1	**0.77**	<0.1	12	
SB17-97-5-4.8	4.8					<0.02	0.12	<0.02	92	
SB17-97-6-0.5	0.5					<0.1	**0.56**	<0.1	34	

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SB17-97-6-2.2	2.2	Mar-97	BC			<0.01	<0.01	<0.01	2.7	
SB17-97-6-4.2	4.2					<0.01	0.029	<0.01	3.1	
SB17-97-7-5	5					<0.01	0.044	<0.01	110	
SB17-97-8-0.7	0.7					<0.01	<0.01	<0.01	5.9	
SB17-97-8-2.3	2.3					<0.01	<0.01	<0.01	1.8	
SB17-97-8-5	5					<0.01	<0.01	<0.01	2.8	
SB17-97-9-0.5	0.5					<0.02	0.012	<0.02		
SB17-97-9-2.6	2.6					<0.01	<0.01	<0.01		
SB17-97-9-5	5					<0.01	<0.01	<0.01		
SB17-97-10-0.4	0.4					<0.1	**0.78**	<0.1		
SB17-97-10-2.4	2.4					<0.01	<0.01	<0.01		
SB17-97-10-5.2	5.2					<0.01	<0.01	<0.01		
SB17-97-11-4	4					<1	**3.7**	<1		
SB17-97-12-0.5	0.5					<0.04	0.18	<0.04		
SB17-97-12-2.2	2.2					<0.2	**1.6**	<0.2		
SB17-97-12-5	5					<0.1	**0.48**	<0.1		
SB17-97-13-2	2					<2	**16**	<2		
SB17-97-13-0.6	0.6					<0.2	**1.0**	<0.2		
SB17-97-13-7.5	7.5					<2	**13**	<2		
SB17-97-14-0.5	0.5					<0.01	<0.01	<0.01		
SB17-97-14-2.4	2.4					<0.01	0.034	<0.01		
SB17-97-14-3.8	3.8					<0.01	<0.01	<0.01		
SB17-97-15-5	5					<0.01	<0.01	<0.01		
SB17-97-15-8	8					<0.01	0.026	<0.01		
SB17-97-16-0.8	0.8					<0.5	**2.6**	<0.5		
SB17-97-17-0.5	0.5					<0.01	0.025	<0.01		
SB17-97-17-2	2					<0.01	0.032	<0.01		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SB17-97-18-0.5	0.5	Mar-97	BC			<0.01	0.019	<0.01		
SB17-97-18-2.3	2.3					<0.01	<0.01	<0.01		
SB17-97-18-4.5	4.5					<0.01	<0.01	<0.01		
SB17-97-19-0.5	0.5					<0.01	0.026	<0.01		
SB17-97-19-2	2					<0.01	0.014	<0.01		
SB17-97-19-4	4					<0.01	<0.01	<0.01		
SB17-98-1-11	11	Mar-98	BC			<0.01	<0.01	<0.01		
SB17-98-1-16	16					<0.01	<0.01	<0.01		
SB17-98-1-20.3	20.3					<0.01	<0.01	<0.01		
SB17-98-2-10.5	10.5					<0.01	<0.01	<0.01		
SB17-98-2-15.2	15.2					<0.01	<0.01	<0.01		
SB17-98-2-16.5	16.5					<0.05	**0.38**	<0.05		
SB17-98-3-10.9	10.9					<0.01	<0.01	<0.01		
SB17-98-4-11	11					<0.01	0.047	<0.01		
SB17-98-4-14	14					<0.01	0.06	<0.01		
SB17-98-4-18	18					<0.01	<0.01	<0.01		
SB17-98-5-0.5	0.5	Apr-98	BC			<0.2	**1.1**	<0.2		
SB17-98-5-2.5	2.5					<0.01	0.08	<0.01		
SB17-98-5-5	5					<0.01	<0.01	<0.01		
SS17-98-1-0.5	0.5	Mar-98	BC			<0.01	<0.01	<0.01		
SS17-98-1-3	3					<0.01	<0.01	<0.01		
SS17-98-2-0.5 X	0.5					<0.5	**2.5**	<0.5		
SS17-98-2-2.9	2.9					<0.01	0.02	<0.01		
SS17-98-3-0.5	0.5					<0.1	**0.77**	<0.1		
SS17-98-3-3	3					<0.01	0.022	<0.01		
SS17-98-4-0.5	0.5					<0.01	0.03	<0.01		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS17-98-4-2.9	2.9	Mar-98	BC			<0.01	0.018	<0.01		
SS17-98-5-0.5 X	0.5					<0.01	0.018	<0.01		
SS17-98-5-2.8	2.8					<0.01	<0.01	<0.01		
SS17-98-6-0.5	0.5					<0.01	<0.01	<0.01		
SS17-98-6-2.8	2.8					<0.01	<0.01	<0.01		
SS17-98-7-0.5	0.5					<0.01	0.044	<0.01		
SS17-98-7-3	3					<0.01	<0.01	<0.01		
SS17-98-8-0.5	0.5					<0.01	<0.01	<0.01		
SS17-98-8-3	3					<0.01	<0.01	<0.01		
SS17-98-9-0.5	0.5					<0.01	<0.01	0.13		
SS17-98-9-3	3					<0.01	<0.01	<0.01		
SS17-98-10-0.5	0.5					<0.02	0.17	<0.02		
SS17-98-10-2.8	2.8					<0.01	<0.01	<0.01		
SS17-98-11-0.5	0.5					<0.01	<0.01	0.069		
SS17-98-12-0.5	0.5					<0.01	<0.01	0.059		
SS17-98-13-0.5	0.5					<0.01	0.047	<0.01		
SS17-98-14-0.5	0.5					<0.1	**0.5**	<0.1		
SS17-98-15-0.5	0.5					<0.1	**0.76**	<0.1		
SS17-98-16-0.5 X	0.5					<0.3	**1.6**	<0.3		
SS17-98-17-0.5	0.5					<0.01	0.066	<0.01		
SS17-98-18-0.5	0.5					<0.01	0.012	<0.01		
SS17-98-19-0.5	0.5	Apr-98	BC			<0.01	<0.01	<0.01		
SS17-98-20-0.5	0.5					<0.01	<0.01	<0.01		
SS17-98-21-0.5	0.5					<0.01	0.048	<0.01		
SS-17Excn-98-1-2	2	Nov-98	BC			<0.01	0.021	<0.01		
SS-17Excn-98-2-2	2					<0.01	<0.01	<0.01		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS-17Excn-98-3-2	2	Nov-98	BC			<0.01	0.014	<0.01		
SS-17Excn-98-4-2	2					<0.02	0.18	<0.02		
SS-17Excn-98-5-2	2					<0.05	**0.31**	<0.05		
SS-17Excn-98-6-2	2					<0.01	0.084	<0.01		
BS-SS17Excn-98-5-2.9	2.9					<0.01	0.036	<0.01		
BS-SS17Excn-98-5-3.8	3.8					<0.01	0.055	<0.01		
BS-SS17Excn-98-7-2.5	2.5					<0.01	<0.01	<0.01		
BS-SS17Excn-98-7-4	4					<0.01	0.021	<0.01		
BS-SS17Excn-98-8-2.5	2.5					<0.01	0.066	<0.01		
BS-SS17Excn-98-8-3.9	3.9					<0.01	<0.01	<0.01		
BS-SS17Excn-98-9-2.9c	2.9					<0.01	0.015	<0.01		
BS-SS17Excn-98-10-1.3c	1.3					<0.05	**0.53**	<0.05		
BS-SS17Excn-98-11-1.5	1.5					<0.05	**0.33**	<0.05		
SS-17ExcW-99-1-2.5	2.5	May-99	BC			<0.02	0.21	<0.02		
SS-17ExcW-99-2-2.5 X	2.5					<0.5	**7.5**	<0.5		
SS-17ExcW-99-3-5	5					<0.01	0.021	<0.01		
SS-17ExcW-99-4-5 X	5					<0.01	**2.1**	<0.01		
SS-17ExcW-99-5-5.5	5.5					<0.01	<0.01	<0.01		
SS-17ExcW-99-6-6.8	6.8					<0.01	**0.42**	<0.01		
SS-17ExcW-99-7-5.5 X	5.5					<0.01	0.031	<0.01		
SS-17ExcW-99-8-7.8 X	7.8					<0.5	**1.3**	<0.5		
SS-17ExcW-99-9-12.3	12.3					<0.01	0.011	<0.01		
SS-17ExcW-99-10-12.3	12.3					<0.01	<0.01	<0.01		
SS-17ExcW-99-11-12.3	12.3					<0.01	<0.01	<0.01		
SS-17ExcW-99-12-12.3	12.3					<0.01	<0.01	<0.01		
SS-17ExcW-99-13-5 X	5					<0.01	**1.6**	<0.01		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS-17ExcW-99-14-11	11	May-99	BC			<0.01	<0.01	<0.01		
SS-17ExcW-99-15-6	6					<0.01	<0.01	<0.01		
SS-17ExcW-99-16-11	11					<0.01	0.066	<0.01		
SS-17ExcW-99-17-12.3	12.3					<0.01	<0.01	<0.01		
SS-17ExcW-99-18-12.3	12.3					<0.02	0.13	<0.02		
SS-17ExcW-99-19-5.5	5.5					<0.01	0.17	<0.01		
SS-17ExcW-99-20-11	11					<0.01	<0.01	<0.01		
SS-17ExcW-99-21-2.5	2.5					<0.01	0.16	<0.01		
SS-17ExcW-99-22-11	11					<0.02	0.16	<0.02		
SS-17ExcW-99-23-10.5	10.5					<0.01	<0.01	<0.01		
SS-17ExcW-99-24-10.5	10.5					<0.01	<0.01	<0.01		
SS-17ExcW-99-25-1 X	1					<0.05	**0.51**	<0.05		
SS-17ExcW-99-26-0.8 X	0.8					<0.5	**2.8**	<0.5		
SS-17ExcW-99-27-1.5 X	1.5					<2	**19**	<2		
SS-17ExcW-99-28-5	5					<0.1	**0.78**	<0.1		
SS-17ExcW-99-29-6	6					<0.01	0.031	<0.01		
SS-17ExcW-99-30-6 X	6					<0.2	**3.0**	<0.2		
SS-17ExcW-99-31-6 X	6					<0.2	**2.3**	<0.2		
SS-17ExcW-99-32-6 X	6					<0.2	**2.8**	<0.2		
SS-17ExcW-99-33-6.5	6.5					<0.01	0.023	<0.01		
SS-17ExcW-99-34-5	5					<0.05	**0.36**	<0.05		
SS-17ExcW-99-35-8.5	8.5					<0.2	**0.23**	<0.2		
SS-17ExcW-99-36-8.5 X	8.5					<0.2	**2.3**	<0.2		
SS-17ExcW-99-37-11	11					<0.01	0.053	<0.01		
SS-17ExcW-99-38-12.5	12.5					<0.01	<0.01	<0.01		
SS-17ExcW-99-39-12.5	12.5					<0.01	0.031	<0.01		
SS-17ExcW-99-40-12.5	12.5					<0.01	<0.01	<0.01		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS-17ExcW-99-41-9	9	May-99	BC			<0.01	0.027	<0.01		
SS-17ExcW-99-42-11.5	11.5					<0.01	0.025	<0.01		
SS-17ExcW-99-43-14	14					<0.02	**0.26**	<0.02		
SS-17ExcW-99-44-14.5	14.5					<0.1	**0.52**	<0.1		
SS-17ExcW-99-45-15	15					<0.01	<0.01	<0.01		
SS-17ExcW-99-46-12 X	12					<1	**0.96**	<1		
SS-17ExcW-99-47-12.5 X	12.5					<0.5	**1.1**	<0.5		
SS-17ExcW-99-48-13 X	13					<0.01	0.054	<0.01		
SS-17ExcW-99-49-12 X	12					<0.5	**1.3**	<0.5		
SS-17ExcW-99-50-10	10					<0.01	<0.01	<0.01		
SS-17ExcW-99-51-5	5					<0.01	0.036	<0.01		
SS-17ExcW-99-52-2.5	2.5					<0.01	0.056	<0.01		
SS-17ExcW-99-53-5	5					<0.01	<0.01	<0.01		
SS-17ExcW-99-54-8	8					<0.01	<0.01	<0.01		
SS-17ExcW-99-55-14.5	14.5					<0.01	<0.01	<0.01		
SS-17ExcW-99-56-13	13					<0.01	<0.01	<0.01		
SS-17ExcW-99-57-11	11					<0.01	<0.01	<0.01		
SS-17ExcW-99-58-3 X	3					<0.1	**1.0**	<0.1		
SS-17ExcW-99-59-7 X	7					<0.01	0.028	<0.01		
SS-17ExcW-99-60-5	5					<0.01	<0.01	<0.01		
SS-17ExcW-99-61-9	9					<0.01	<0.01	<0.01		
SS-17ExcW-99-62-11	11					<0.01	<0.01	<0.01		
SS-17ExcW-99-63-4 X	4					<0.5	**3.2**	<0.5		
SS-17ExcW-99-63-5.6 X	5.6					<0.01	**0.25**	<0.01		
SS-17ExcW-99-63-7.2	7.2					<0.01	<0.01	<0.01		
SS-17ExcW-99-64-4	4					<0.01	0.15	<0.01		
SS-17ExcW-99-65-4 X	4					<0.5	**2.3**	<0.5		

Table B3.3-1
Soil Sampling Results (mg/kg)
SWMU 2-3: Building 17 Former Scrap Yard and Drum Storage Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs	SVOCs	PCBs			TPH-D	TPH-G
						Aroclor 1242	Aroclor 1254	Aroclor 1260		
			PRG			0.22	0.22	0.22		
Sample ID	Depth (ft)	Date	Lab							
SS-17ExcW-99-65-5.5 X	5.5	May-99	BC			<0.02	**0.25**	<0.02		
SS-17ExcW-99-65-6.8	6.8					<0.01	<0.01	<0.01		
SS-17ExcW-99-66-2.5	2.5					<0.01	0.016	<0.01		
SS-17ExcW-99-67-3 X	3					<0.01	0.08	<0.01		
SS-17ExcW-99-68-9	9					<0.01	<0.01	<0.01		
SS-17ExcW-99-69-9	9					<0.01	<0.01	<0.01		
SS-17ExcW-99-70-9	9					<0.01	<0.01	<0.01		
SS-17ExcW-99-71-8	8					<0.01	<0.01	<0.01		
SS-17ExcW-99-72-15	15					<0.01	0.074	<0.01		
SS-17ExcW-99-73-15.5	15.5					<0.05	**0.44**	<0.05		
SS-17ExcW-99-74-2.5	2.5	Jun-99	BC			<0.2	**0.56**	<0.2		
SS-17ExcW-99-75-3 X	3					<0.2	**2.0**	<0.2		
SS-17ExcW-99-75A-2.8	2.8	Jul-99	BC			<0.5	**2.4**	<0.5		
SS-17ExcW-99-75B-3.3	3.3	Aug-99	BC			<0.2	**0.83**	<0.2		
SS-17ExcW-99-75B-4.3	4.3					<0.5	**3.8**	<0.5		

BC = Analysis by BC Laboratories
C = Analysis by Chromolab
LBNL = Analysis by LBNL

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

COPCs = Chemicals of Potential Concern
VOCs analyzed by EPA Method 8260
SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
Concentrations shown in **bold** are above PRGs for residential soil.

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)
Freon-12 (Dichlorodifluoromethane) = 94

X = Sample location has been excavated

Table B3.4-1
Soil Sampling Results (mg/kg)
SWMU 7-5: Building 58 Sumps
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs		PCBs	TPH-Fuel Identification	Oil & Grease
				PCE	TCE			
			PRG	5.7	2.8	0.22		
Sample ID	Depth (ft)	Date	Lab					
SB58-01-01-2.5	2.5	Aug-96	BC	<0.005	<0.005	<0.01	Diesel=4.6	<20
SB58-01-01-3.8	3.8			<0.005	<0.005	<0.01	ND	26
SB58-01-01-5.1	5.1			<0.005	<0.005	<0.01	Crude/Waste Oil=38	<20
SB58-01-02-2.3	2.3			<0.005	<0.005	<0.01	Crude/Waste Oil=16	<20
SB58-01-02-3.7	3.7			<0.005	<0.005	<0.01	ND	<20
SB58-01-02-5.1	5.1			<0.005	<0.005	<0.01	ND	<20
SB58-01-02-11	11			<0.005	<0.005	<0.01	ND	<20
SB58-01-02-16	16			0.014	0.019	<0.01	ND	<20
SB58-01-02-26	26			<0.005	<0.005	<0.01	ND	24
SB58-01-02-30.3	30.3			<0.005	<0.005	<0.01	ND	<20
SB58-01-03-2.1	2.1			<0.005	<0.005	<0.01	Crude/Waste Oil=16	<20
SB58-01-03-3	3			<0.005	<0.005	<0.01	ND	<20
SB58-01-03-4.8	4.8			<0.005	<0.005	<0.01	ND	<20

BC = Analysis by BC Laboratories

COPCs = Chemicals of Potential Concern

VOCs analyzed by EPA Method 8260

PCBs analyzed by EPA Method 8080

Fuel Identification analyzed by EPA Method 8015M, included Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/ Petroleum Benzin, Gasoline, JP4, JP5, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40

Oil & Grease analyzed by EPA Method 413.1

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)

Table B3.5-1
Soil Sampling Results (mg/kg)
SWMU 10-4: Building 16 Former Waste Accumulation Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs			PCBs	TPH-D	TPH-G	Oil & Grease
				Acetone	PCE	Methylene Chloride	Aroclor 1254			
			PRG	1600	5.7	8.9	0.22			
Sample ID	Depth (ft)	Date	Lab							
SS16W-1/2-2.0	2.0	Apr-93	P, C	0.43	0.005	<0.1				55
SS16W-3-2.0	2.0			0.11	<0.002	<0.1				<50
SS16-94-01-0.5	0.5	Jun-94	BC		<0.005	<0.005		30	<1	76
SS16-94-01-5	5				<0.005	<0.005		190	<1	34
SS16-94-01-9	9				<0.005	<0.005		11	<1	30
SS16-94-02-0.5	0.5				0.021	0.0063		570	<1	3100
SS16-94-02-5	5				<0.005	<0.005		28	<1	<20
SS16-94-03-0.5	0.5				<0.005	<0.005		85	<1	17,000
SS16-94-03-5	5				0.024	0.0078		14	<1	36
SB7-94-01-2.7	2.7	Oct-94	BC		<0.005	<0.01		<10		360
SB7-94-01-4.6	4.6				<0.005	<0.01		<10		290
SB7-94-01-9.6	9.6				<0.005	<0.01		<10		<20
SB7-94-01-14.3	14.3				<0.005	<0.01		<10		370
SB16-96-1-0.7	0.7	Aug-96	BC				0.06	3		<20
SB16-96-1-3	3							<2		<20
SB16-96-2-0.6	0.6						**0.9**	5.5		<20
SB16-96-2-9	9							2.6		56
SB16-96-3-0.5	0.5						**0.46**	180		40
SB16-96-4-0.8	0.8						<0.01	9.1		54
SB16-96-5-0.8	0.8						**2.5**	82		490

Table B3.5-1
Soil Sampling Results (mg/kg)
SWMU 10-4: Building 16 Former Waste Accumulation Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs			PCBs	TPH-D	TPH-G	Oil & Grease
				Acetone	PCE	Methylene Chloride	Aroclor 1254			
			PRG	1600	5.7	8.9	0.22			
Sample ID	Depth (ft)	Date	Lab							
SB16-96-6-0.6	0.6	Aug-96	BC				0.12	<2		1000
SB16-96-6-2.8	2.8							<2		56
SB16-96-6-3	3				0.011	<0.005				
SB16-96-7-0.7	0.7						0.048	2.0		270
SB16-96-7-2.2	2.2				<0.005	<0.005				
SB16-96-7-2.7	2.7							<2		56
SB16-96-8-0.6	0.6						<0.01	<2		310
SB16-96-8-2.7	2.7				<0.005	<0.005		<2		<20
SB16-96-9-0.8	0.8						<0.01	2.5		<20
SB16-96-9-1.8	1.8				0.0079	<0.005		14		<20
SB16-96-10-0.6	0.6						0.017	<2		<20
SB16-96-10-1.5	1.5							<2		<20
SB16-96-11-0.8	0.8						0.16	8.8		<20
SB16-96-12-0.8	0.8						<0.01	7.1		<20
SB16-96-12-2.7	2.7							4.0		<20
SB16N-96-1-6.5	6.5	Aug-96	BC		<0.005	<0.005	<0.01	28		<20
SB16N-96-1-9	9				<0.005	<0.005	0.088	17		<20
SB16-97-1-2	2	Mar-97	BC				<0.01			
SB16-97-1-5	5						<0.01	18		<20
SB16-97-2-0.5	0.5									

Table B3.5-1
Soil Sampling Results (mg/kg)
SWMU 10-4: Building 16 Former Waste Accumulation Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs			PCBs	TPH-D	TPH-G	Oil & Grease
				Acetone	PCE	Methylene Chloride	Aroclor 1254			
			PRG	1600	5.7	8.9	0.22			
Sample ID	Depth (ft)	Date	Lab							
SB16-97-2-2.3	2.3	Mar-97	BC				<0.01			
SB16-97-2-5.2	5.2						<0.01	3.8		<20
SB16-97-3-0.7	0.8									
SB16-97-3-2	2						0.16			
SB16-97-3A-5	5						<0.01	<1		<20
SB16-97-4-0.5	0.5									
SB16-97-4-2	2						0.16			
SB16-97-4-4.9	4.9						0.14	1.6		84
SB16-97-5-0.5	0.5									
SB16-97-5A-4.9	4.9						<0.01	<1		<20
SB16-97-6-0.5	0.5									
SB16-97-6A-5	5						<0.01	<1		<20
SB16-97-7-0.4	0.4									
SB16-97-7-2	2						0.025			
SB16-97-7-5.3	5.3						<0.01	<1		<20
SB16-97-8-0.5	0.5									
SB16-97-8-1.8	1.8						<0.01			
SB16-97-8-5	5						<0.01	<1		<20
SB16-97-9-0.6	0.6						0.079	<5		440
SB16-97-9-2	2						<0.01	1.1		<20

Table B3.5-1
Soil Sampling Results (mg/kg)
SWMU 10-4: Building 16 Former Waste Accumulation Area
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs			PCBs	TPH-D	TPH-G	Oil & Grease
				Acetone	PCE	Methylene Chloride	Aroclor 1254			
			PRG	1600	5.7	8.9	0.22			
Sample ID	Depth (ft)	Date	Lab							
SB16-97-9-5	5	Mar-97	BC				<0.01	<1		<20
SB16-97-10-0.4	0.4						<0.01	85		<20
SB16-97-10-2.4	2.4						0.013	3.5		100
SB16-97-10-5	5						<0.01	140		<20
SB16-97-11-3.5	3.5	Nov-97	BC		<0.005	0.043	<0.01			
SB16-97-11-10.8	10.8						<0.01			
SB16-97-11-15.8	15.8				<0.005	<0.005				
SB16-97-11-25.8	25.8				<0.005	<0.005				

BC = Analysis by BC Laboratories
P = Analysis by Precision Analytical
C = Analysis by Chromalab
COPCs = Chemicals of Potential Concern
VOCs analyzed by EPA Method 8260
PCBs analyzed by EPA Method 8080
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
Oil & Grease analyzed by EPA Method 413.1
Concentrations shown in **bold** are above PRGs for residential soil.

<	= Not detected above reporting limit (reporting limit shown)
	= Not analyzed

Table B3.6-1
Soil Sampling Results (mg/kg*)
SWMU 10-10: Building 25 Plating Shop Floor Drains
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Cyanide

Sample ID	Depth (ft)	Date	Lab	VOCs	BTEX	Cyanide	pH
SS25P-1-2.0	2.0	Jul-92	C	ND	ND		
SS25P-1-5.0	5.0			ND	ND		
SS25P-2-2.0	2.0			ND	ND		
SS25P-2-5.0	5.0			ND	ND		
SS25P-3-2.0	2.0			ND	ND		
SS25P-3-5.0	5.0			ND	ND		
SS25P-4-2.0	2.0			ND	ND		
SS25P-4-5.0	5.0			ND	ND		
SB25Pl-96-1-0.9	0.9	Sep-96	BC	ND		<1.0	7.95
SB25Pl-96-1-2.7	2.7			ND		<1.0	6.18
SB25Pl-96-2-0.7	0.7			ND		<1.0	7.63
SB25Pl-96-2-2.2	2.2			ND		<1.0	5.47
SB25Pl-96-3-0.6	0.6			ND		<1.0	9.33
SB25Pl-96-4-0.7	0.7			ND		<1.0	8.79
SB25Pl-96-4-2.6	2.6			ND		<1.0	5.15
SB25Pl-96-5-0.8	0.8			ND		<1.0	8.17
SB25Pl-96-5-2.4	2.4			ND		<1.0	4.88
SB25Pl-96-6-0.8	0.8			ND		<1.0	6.98
SB25Pl-96-6-2.5	2.5			ND		<1.0	6.22
SB25Pl-96-7-0.9	0.9			ND		<1.0	4.66
SB25Pl-96-7-2.7	2.7			ND		<1.0	6.35
SB25Pl-96-8-0.9	0.9			ND		<1.0	3.66
SB25Pl-96-8-2.6	2.6			ND		<1.0	5.35
SB25Pl-96-9-1	1			ND		<1.0	2.73
SB25Pl-96-9-2.4	2.4			ND		<1.0	6.90
SB25Pl-96-10-0.9	0.9			ND		<1.0	8.02
SB25Pl-96-10-2.6	2.6			ND		<1.0	6.85
SB25Pl-96-11-0.9	0.9			ND		<1.0	3.29
SB25Pl-96-11-2.6	2.6			ND		<1.0	6.56
SB25Pl-96-12-0.9	0.9			ND		<1.0	6.44
SB25Pl-96-12-2.6	2.6			ND		<1.0	7.93
SB25Pl-96-13-0.9	0.9			ND		<1.0	6.23
SB25Pl-96-13-2.5	2.5			ND		<1.0	6.40
SB25Pl-96-14-0.9	0.9			ND		<1.0	5.04
SB25Pl-96-14-2	2			ND		<1.0	8.01
SB25Pl-96-15-1.1	1.1			ND		<1.0	8.00
SB25Pl-96-15-2.6	2.6			ND		<1.0	7.45
SB25Pl-96-16-1.1	1.1			ND		<1.0	8.23
SB25Pl-96-16-2	2			ND		<1.0	6.14
SB25Pl-96-17-1	1			ND		<1.0	7.89
SB25Pl-96-17-2.1	2.1			ND		<1.0	8.04

BC = Analysis by BC Laboratories
C = Analysis by Chromalab
COPCs = Chemicals of Potential Concern
VOCs analyzed by EPA Method 8010, 8240 or 8260
BTEX analyzed by EPA Method 8020
Cyanide analyzed by EPA Method 9012
pH analyzed by EPA Method 9040
*pH reported in standard units

ND	= Not detected above reporting limit
<	= Not detected above reporting limit
	= Not analyzed

Table B3.7-1

Soil Sampling Results (mg/kg*)

AOC 2-1: Building 7E Former Underground Storage Tank

Concentrations of Organic Constituents

COPCs: Kerosene/Diesel, BTEX

				VOCs					Fuels	TPH-Diese	TPH-Gas	pH
				PCE	TCE	Ethylbenzene	sec-butylbenzen	Other Compounds Detectec				
			PRG	5.7	2.8	230	110					
Sample ID	Depth (ft)	Date	Lab									
S-1-4	4									1600		
S-2-17	17									530		
B-4-10.5	10.5								Naphthalene=1.2	800		
B-6-17	17			ND	ND	ND	ND		TPH-Waste oil=26	<1		
B-6-30	30			ND	ND	ND	ND			750		
BS-7-92-16-5.5	5.5	Sep-92	C	<0.005	<0.005	<0.005				<1	<1	
BS-7-92-16-16	16									2.2	<1	
BS-7-92-16-21	21			<0.005	<0.005	<0.005				9.5	2	
BS-7-92-16-25.5	25.5									13	5.3	
BS-7-92-16-30.8	30.8			<0.005	<0.005	0.032				770	120	
BS-7-92-16-35.8	35.8									1400	140	
BS-7-92-16-40.5	40.5			<0.005	<0.005	<0.005				25	1	
BS-7-92-16-45.5	45.5									1.4	<1	
BS-7-92-16-50.2	50.2			<0.005	<0.005	<0.005				<1	50	
BS-7-92-16-55.5	55.5									2.3	1.1	
BS6-93-4-6	6	Sep-93	C						TPH-Motor Oil=66	<1	<1	
BS6-93-4-11	11		LBNL	0.001	<0.001	<0.001	<0.001					
BS6-93-4-16	16		C							<1	<1	
BS6-93-4-21	21		LBNL	0.0053	<0.001	<0.001	<0.001	carbon disulfide=0.005 cis-1,2-DCE=0.0011 1,1,1-TCA=0.001				
BS6-93-4-31	31			0.0014	<0.001	<0.001	0.0031	1,2,4-trimethylbenzene=0.0024				
BS6-93-4-40	40			<0.001	<0.001	0.062	1.32	ter-butylbenzene=0.488 isopropylbenzene=0.332 p-isopropyltoluene=0.01 naphthalene=0.018 toluene=0.004, xylene=0.097 1,2,4-trimethylbenzene=2.5 1,3,5-trimethylbenzene=0.38				

Table B3.7-1
Soil Sampling Results (mg/kg*)
AOC 2-1: Building 7E Former Underground Storage Tank
Concentrations of Organic Constituents
COPCs: Kerosene/Diesel, BTEX

				VOCs					Fuels	TPH-Diese	TPH-Gas	pH
				PCE	TCE	Ethylbenzene	sec-butylbenzen	Other Compounds Detectec				
			PRG	5.7	2.8	230	110					
Sample ID	Depth (ft)	Date	Lab									
BS6-93-4-40.5	40.5	Sep-93	C						TPH-Kerosene=130	<1	<1	
BS6-93-4-51	51	Sep-93	LBNL	<0.001	<0.001	<0.001	<0.001					
BS-MW6-95-14-8.5	8.5	Aug-95	BC	<0.005	<0.005	<0.005	<0.005			12		
BS-MW6-95-14-14.3	14.3			<0.3	<0.3	<0.3	0.50	p-isopropyltoluene=0.64 n-propylbenzene=0.48 1,2,4-trimethylbenzene=2.0		500		
BS-MW6-95-14-19.5	19.5			<0.06	<0.06	<0.06	0.07			110		
BS-MW6-95-14-24	24			<0.06	<0.06	<0.06	0.085			500		
BS-MW6-95-14-28.5	28.5			<0.1	<0.1	<0.1	0.34	n-butylbenzene=0.40 p-isopropyltoluene=0.46		180		
BS-MW6-95-14-33.5	33.5			<0.5	<0.5	<0.5	0.87	n-butylbenzene=1.2 p-isopropyltoluene=1.9		36		
BS-MW6-95-14-38.7	38.7			<0.5	<0.5	<0.5	1.4	n-butylbenzene=1.7 p-isopropyltoluene=2.1 naphthalene=2.6 1,2,4-trimethylbenzene=2.0 1,3,5-trimethylbenzene=0.87		740		
BS-MW6-95-14-43.6	43.6			<0.1	<0.1	<0.1	<0.1			44		
BS-MW6-95-14-48.5	48.5			<0.005	<0.005	<0.005	<0.005			<10		
BS-MW6-95-14-53.9	53.9			<0.005	<0.005	<0.005	<0.005			<10		
BS-MW6-95-14-58.5	58.5			<0.005	<0.005	<0.005	<0.005			<10		
BS-MW6-95-14-63.5	63.5			<0.005	0.0057	<0.005	<0.005			<10		
BS-MW6-95-14-68.5	68.5			0.051	0.016	<0.005	<0.005			<10		
BS-SB-7-95-1-5.5	5.5	May-95	BC	<0.005	<0.005	<0.005	<0.005		ND			8.05
BS-SB-7-95-1-10.3	10.3			<0.005	<0.005	<0.005	<0.005		ND			7.31

Table B3.7-1

Soil Sampling Results (mg/kg*)

AOC 2-1: Building 7E Former Underground Storage Tank

Concentrations of Organic Constituents

COPCs: Kerosene/Diesel, BTEX

				VOCs					Fuels	TPH-Diese	TPH-Gas	pH
				PCE	TCE	Ethylbenzene	sec-butylbenzen	Other Compounds Detectec				
			PRG	5.7	2.8	230	110					
Sample ID	Depth (ft)	Date	Lab									
BS-SB-7-95-1-15.8	15.8	May-95	BC	<0.005	<0.005	<0.005	<0.005		ND			7.71
BS-SB-7-95-1-21	21			<0.005	<0.005	<0.005	<0.005		ND			8.39
BS-SB-7-95-1-25.8	25.8			<0.005	<0.005	<0.005	<0.005		ND			8.34
BS-SB-7-95-1-30.3	30.3			<0.005	<0.005	<0.005	<0.005		ND			7.94
BS-SB-7-95-2-6.3	6.3			<0.005	<0.005	<0.005	<0.005		ND			7.98
BS-SB-7-95-2-9.6	9.6			<0.005	<0.005	<0.005	<0.005	cis-1,2-DCE=0.0074	ND			7.51
BS-SB-7-95-2-14.5	14.5			<0.005	<0.005	<0.005	<0.005		ND			7.46
BS-SB-7-95-2-20.5	20.5			<0.005	<0.005	<0.005	<0.005		ND			7.36
BS-SB-7-95-2-25	25			<0.005	<0.005	<0.005	<0.005		ND			7.42
BS-SB-7-95-2-30.1	30.1			<0.005	<0.005	<0.005	<0.005		ND			8.72
BS-SB-7-95-3-3.5	3.5			<0.005	<0.005	<0.005	<0.005		ND			8.12
BS-SB-7-95-3-5.5	5.5			<0.005	<0.005	<0.005	<0.005		ND			7.94
BS-SB-7-95-3-10.6	10.6			<0.005	<0.005	<0.005	<0.005		ND			7.10
BS-SB-7-95-3-15.9	15.9			<0.005	<0.005	<0.005	<0.005		ND			7.27
BS-SB-7-95-3-20.5	20.5			<0.005	<0.005	<0.005	<0.005		ND			7.85
BS-SB-7-95-3-25.5	25.5			<0.005	<0.005	<0.005	<0.005		ND			7.62
BS-SB-7-95-3-30	30			<0.005	<0.005	<0.005	<0.005		ND			7.49
BS-SB-7-95-4-3.3	3.3			<0.005	<0.005	<0.005	<0.005		ND			7.49
BS-SB-7-95-4-5.6	5.6			<0.005	<0.005	<0.005	<0.005		ND			7.72
BS-SB-7-95-4-10.1	10.1			<0.005	<0.005	<0.005	<0.005		Diesel=12			6.75
BS-SB-7-95-4-16	16			<0.005	<0.005	<0.005	<0.005		ND			7.80
BS-SB-7-95-4-20.2	20.2			<0.005	<0.005	<0.005	<0.005		ND			7.64
BS-SB-7-95-4-25.3	25.3			<0.005	<0.005	<0.005	<0.005	Freon-113=0.0057	ND			7.44
BS-SB-7-95-4-30.4	30.4			<0.005	<0.005	<0.005	<0.005	Freon-113=0.0067	ND			7.74
BS-SB-7-95-4-35	35			<0.03	<0.03	<0.03	<0.03		Diesel=99			7.61

Table B3.7-1

Soil Sampling Results (mg/kg*)

AOC 2-1: Building 7E Former Underground Storage Tank

Concentrations of Organic Constituents

COPCs: Kerosene/Diesel, BTEX

				VOCs					Fuels	TPH-Diese	TPH-Gas	pH
				PCE	TCE	Ethylbenzene	sec-butylbenzen	Other Compounds Detectec				
			PRG	5.7	2.8	230	110					
Sample ID	Depth (ft)	Date	Lab									
BS-SB-7-95-4-40.3	40.3	May-95	BC	<0.005	<0.005	<0.005	<0.005		ND			7.49
BS-SB-7-95-4-45.3	45.3			<0.005	<0.005	<0.005	<0.005		ND			7.65

BC = Analysis by BC Laboratories
C = Analysis by Chromalab
LBNL = Analysis by Lawrence Berkeley Lab
COPCs = Chemicals of Potential Concern
*pH reported in standard units

< = Not detected above reporting limit (reporting limit shown)
= Not analyzed

VOCs analyzed by EPA Method 8240 or 8260
TPH-Diesel analyzed by EPA Method 8015
TPH-Gas analyzed by EPA Method 8015
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)
1,1,1-TCA = 770
1,2,4-Trimethylbenzene = 5.7
1,3,5-Trimethylbenzene = 21
carbon disulfide = 360
cis-1,2-DCE = 43
Freon-113 = 5600
Isopropylbenzene = 160
n-propylbenzene = 140
Naphthalene = 56
ter-butylbenzene = 130
Toluene = 520
Xylene = 210

Table B3.8-1
Soil Sampling Results (mg/kg)*
AOC 2-5: Former Building 7 Sump
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs					SVOCs	PCBs			Fuels	TPH-D	TPH-G	Oil & Greas	pH
				cis 1,2-DCE	PCE	TCE	1,1,1-TCA	Other Compounds Detected		Aroclor 1248	Aroclor 1254	Aroclor 1260					
			PRG	43	5.7	2.8	770			0.22	0.22	0.22					
Sample ID	Depth (ft)	Date	Lab														
SS7N-1-0 X	0	Oct-92	C	<0.005	0.11	<0.005	<0.005			<0.005	0.089	<0.005				**47**	
SS7N-2-0 X	0			<0.005	**14**	<0.005	0.27	Carbon tetrachloride=0.035		<0.005	0.21	<0.005				**180**	
SS7N-3-0 X	0			<0.005	**1500**	2.1	58	**Carbon tetrachloride=7.2** 1,1-DCA=1.3 **1,1-DCE=0.35** Toluene=0.1	1,2,4-TCB=0.11								
SS7N-4-0 X	0	Nov-92	LBNL	<0.005	0.0667	0.0004	0.0025	Benzene=0.0001 Ethylbenzene=0.0002 Toluene=0.0007 Xylene=0.0002									
SS7N-5-1 X	1	Nov-92	C	<0.005	3.0	0.012	<0.005										
SS7N-5-2.5 X	2.5			0.024	**6.3**	0.15	0.22										
SS7N-5-3.5 X	3.5			0.023	**8.2**	0.88	0.11										
SS7N-6-1 X	1.0			<0.005	0.17	<0.005	<0.005										
SS7N-6-2.5 X	2.5			<0.005	**450**	0.7	3.4										
SS7N-6-4 X	4.0			0.005	**9.6**	0.097	0.28										
SS7N-7-1 X	1.0			<0.005	0.13	<0.005	<0.005										
SS7N-7-2.5 X	2.5			<5	**5500**	1.7	46			**0.42**	<0.1	<0.1					
SS7N-8-3 X	3.0			<25	**5000**	<25	<25										
SS7N-9-3 X	3.0			<0.005	<0.005	<0.005	<0.005										
VZM-OT-1-4	4.0	Dec-92	C	<0.005	0.11	<0.005	<0.005			<0.01	<0.01	<0.01					
VZM-OT-1-7.5	7.5			<0.005	0.29	<0.005	<0.005			<0.01	<0.01	<0.01					
VZM-OT-1-11	11			<0.005	0.15	<0.005	<0.005			<0.01	<0.01	<0.01					
VZM-OT-1-15.5	15.5			<0.005	0.64	0.009	0.0097										
VZM-OT-1-20.5	20.5			<0.035	**36**	0.3	0.23										
VZM-OT-1-25	25			<0.005	0.031	<0.005	<0.005										
VZM-OT-1-30	30			<0.005	0.56	<0.005	<0.005										
VZM-OT-2-6	6.0	Aug-93	LBNL	<0.001	0.31	0.004	0.003										
VZM-OT-2-10.5	10.5			<0.001	0.006	<0.001	<0.001										
VZM-OT-2-11	11		C						ND								
VZM-OT-2-15.5	15.5		LBNL	<0.001	0.034	<0.001	<0.001										
VZM-OT-2-20.5	20.5			<0.001	0.184	0.004	0.004										
VZM-OT-2-25.5	25.5			<0.001	0.3	0.011	0.009										
VZM-OT-2-30.5	30.5			<0.001	**21.8**	1.12	0.431										
VZM-OT-2-31	31		C						ND								
MW7-94-3-4.5	4.5	May-94	BC	<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	Diesel=8800		<1	<20	
MW7-94-3-9.5	9.5			<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	Diesel=12,000		<1	<20	
MW7-94-3-14.5	14.5			<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	ND		<1	<20	
MW7-94-3-24	24			<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	ND		<1	<20	

Table B3.8-1
Soil Sampling Results (mg/kg)*
AOC 2-5: Former Building 7 Sump
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs					SVOCs	PCBs			Fuels	TPH-D	TPH-G	Oil & Greas	pH
				cis 1,2-DCE	PCE	TCE	1,1,1-TCA	Other Compounds Detected		Aroclor 1248	Aroclor 1254	Aroclor 1260					
			PRG	43	5.7	2.8	770			0.22	0.22	0.22					
Sample ID	Depth (ft)	Date	Lab														
MW7-94-3-28.8	28.8	May-94	BC	<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	ND		<1	<20	
MW7-94-3-33.7	33.7			<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	ND		<1	<20	
MW7-94-3-43.5	43.5			<0.005	<0.005	<0.005	<0.005			<0.01	<0.01	<0.01	ND		<1	22	
SS-07-94-03-3	3.0	Jun-94	BC							<0.01	<0.01	<0.01	ND				
SS-07-94-03-6	6.0			<0.005	<0.005	<0.005	<0.005		ND	<1	<1	<1	ND				
SB7B-95-1-0.5 X	0.5	Jun-95	BC	<0.005	0.021	<0.005	<0.005										9.08
SB7B-95-1-2.8 X	2.8			<400	**14,000**	<400	<400										7.59
SB7B-95-1-6 X	6.0			<20	**890**	<20	<20										7.04
SB7B-95-1-8.3 X	8.3			<7	**360**	<7	<7										
SB7B-95-1-10.8 X	10.8			<30	**1700**	<30	<30										
SB7B-95-1-12.8 X	12.8			<20	**540**	<20	<20										
SB7B-95-1-15.3 X	15.3			<10	**3400**	**33**	<10										
SB7B-95-1-21	21			<0.10	5.4	1.7	<0.10										7.00
SB7B-95-1-25.8	25.8			<0.1	**7.6**	0.23	<0.1										
SB7B-95-1-30.8	30.8			<0.005	<0.005	<0.005	<0.005										7.64
SB7B-95-2-3.5	3.5	Jun-95	BC	<0.005	0.02	<0.005	<0.005							<10			7.16
SB7B-95-2-6	6.0			<0.005	<0.005	<0.005	<0.005							<10			7.14
SB7B-95-2-11	11			<0.005	0.021	<0.005	<0.005							<10			6.64
SB7B-95-2-16	16			<0.005	0.012	<0.005	<0.005										
SB7B-95-2-21	21			<0.005	0.19	0.012	<0.005							<10			7.21
SB7B-95-2-26	26			<0.005	<0.005	<0.005	<0.005										
SB7B-95-2-31	31			<0.005	<0.005	<0.005	<0.005										7.57
SB7B-95-3-1.1	1.1	Jun-95	BC	<0.005	0.019	<0.005	<0.005	p-isopropyltoluene=0.007									8.04
SB7B-95-3-10.6	10.6			<0.005	0.014	<0.005	<0.005										7.06
SB7B-95-3-16	16			<0.005	0.20	<0.005	<0.005										
SB7B-95-3-20.9	20.9			<0.005	0.017	<0.005	<0.005										6.99
SB7B-95-3-25.7	25.7			<0.005	0.012	<0.005	<0.005										
SB7B-95-3-30.9	30.9			<0.005	<0.005	<0.005	<0.005										8.37
SB7B-95-4-2.5	2.5	Jun-95	BC	<0.005	0.022	0.0051	<0.005										9.04
SB7B-95-4-5	5.0			<0.02	0.29	<0.02	<0.02										7.91
SB7B-95-4-10.1	10.1			<0.005	<0.005	<0.005	<0.005										7.03
SB7B-95-4-15.7	15.7			<0.01	0.094	<0.01	<0.01										
SB7B-95-4-20.3	20.3			<0.005	0.009	<0.005	<0.005										7.21
SB7B-95-4-26	26			<0.005	**6.0**	0.095	0.059	1,1-DCE=0.006									
SB7B-95-4-31	31			<0.01	2.4	<0.01	<0.01										7.49
SB7B-95-5-2.5	2.5	Jun-95	BC	<0.01	0.053	<0.01	<0.01										
SB7B-95-5-5.8	5.8			0.043	1.4	0.13	<0.03										
SB7B-95-5-10.7	10.7			<0.005	0.075	<0.005	<0.005										
SB7B-95-5-15.8	15.8			<0.08	**14**	0.19	<0.08										

Table B3.8-1
Soil Sampling Results (mg/kg)*
AOC 2-5: Former Building 7 Sump
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs					SVOCs	PCBs			Fuels	TPH-D	TPH-G	Oil & Greas	pH
				cis 1,2-DCE	PCE	TCE	1,1,1-TCA	Other Compounds Detected		Aroclor 1248	Aroclor 1254	Aroclor 1260					
			PRG	43	5.7	2.8	770			0.22	0.22	0.22					
Sample ID	Depth (ft)	Date	Lab														
SB7B-95-5-20.5	20.5	Jun-95	BC	<0.06	1.5	0.1	<0.06										
SB7B-95-5-25.7	25.7			<3	**310**	**3.4**	<3										
SB7B-95-5-30.6	30.6			<0.06	**6.6**	0.093	<0.06										
SB7-95-5-0.9	0.9	Jun-95	BC	<0.005	0.13	<0.005	<0.005										7.35
SB7-95-5-5.5	5.5			<0.005	<0.005	<0.005	<0.005										
SB7-95-5-11	11			<0.005	<0.005	<0.005	0.0087										7.52
SB7-95-5-15.6	15.6			<0.005	0.012	<0.005	<0.005										
SB7-95-5-20.9	20.9			<0.005	<0.005	<0.005	<0.005										7.66
SB7-95-5-25.4	25.4			<0.005	<0.005	<0.005	<0.005										
SB7-95-5-31	31			<0.005	<0.005	<0.005	<0.005										8.84
SB7-95-6-1.8	1.8	Jun-95	BC	<0.005	0.86	<0.005	<0.005										6.91
SB7-95-6-5.7	5.7			<0.005	<0.005	<0.005	<0.005										
SB7-95-6-10.7	10.7			<0.005	<0.005	<0.005	<0.005										7.23
SB7-95-6-16	16			<0.005	0.0089	<0.005	<0.005										
SB7-95-6-20.7	20.7			<0.005	<0.005	<0.005	<0.005										8.46
SB7-95-6-25	25			<0.005	<0.005	<0.005	<0.005										
SB7-95-6-30	30			<0.005	<0.005	<0.005	<0.005										8.65
SB7-95-7-0.9	0.9	Jun-95	BC	<0.005	0.073	<0.005	<0.005										7.54
SB7-95-7-5.5	5.5			<0.005	<0.005	<0.005	<0.005										
SB7-95-7-10.8	10.8			<0.005	<0.005	<0.005	<0.005										7.20
SB7-95-7-16	16			<0.005	0.0084	<0.005	<0.005										
SB7-95-7-20.7	20.7			<0.005	0.013	<0.005	<0.005										7.67
SB7-95-7-25.8	25.8			<0.005	<0.005	<0.005	<0.005										
SB7-95-7-30.4	30.4			<0.005	<0.005	<0.005	<0.005										8.94
SS7N-95-1-2 X	2	Jul-95	BC	<0.03	0.38	0.039	<0.03										
SS7N-95-1-4 X	4			<1	**59**	1.6	<1										
SS-B7EXC-CTR-4 X	4.8	Aug-95	BC	<1	**88**	<1	<1										
SS-B7EXC-SE-4.8 X	4.8			<0.005	0.078	<0.005	<0.005										
SS-B7EXC-SW-4.8 X	4.8			<0.05	0.76	<0.05	<0.05										
SS-B7EXC-NE-4.8 X	4.8			<0.005	0.016	<0.005	<0.005										
SS-B7EXC-NW-4.8 X	4.8			<0.3	**15**	<0.3	<0.3										
SS-B7EXC-W-5 X	5			<0.05	2.0	<0.05	<0.05										
SS-B7EXC-NNE-17	17			<0.3	**14**	<0.3	<0.3										
SS-B7EXC-N-17	17			<5	**370**	<5	<5										
SS-B7EXC-NNW-17	17			<20	**1000**	<20	<20										
SS-B7EXC-SSE-17	17			<0.1	3.2	<0.1	<0.1										
SS-B7EXC-S-17	17			<10	**430**	<10	<10										
SS-B7EXC-SSW-17	17			<6	**300**	<6	<6										

Table B3.8-1
Soil Sampling Results (mg/kg)*
AOC 2-5: Former Building 7 Sump
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs					SVOCs	PCBs			Fuels	TPH-D	TPH-G	Oil & Greas	pH
				cis 1,2-DCE	PCE	TCE	1,1,1-TCA	Other Compounds Detected		Aroclor 1248	Aroclor 1254	Aroclor 1260					
			PRG	43	5.7	2.8	770			0.22	0.22	0.22					
Sample ID	Depth (ft)	Date	Lab														
BS-SB7-96-1-40	40	May-96	CLS	<0.009	0.0094	0.018	<0.009										
BS-SB7-96-2-46	46			<0.005	<0.005	<0.005	<0.005										
BS-SB7-96-3-36	36			<0.005	0.34	0.016	<0.005										
BS-SB7-96-3-40	40			<0.05	**24**	2.7	<0.05	carbon tetrachloride=0.078 chloroform=0.092									
BS-SB7-96-4-36	36			<0.005	0.031	0.0083	<0.005										
BS-SB7-96-4-45.4	45.4			<0.005	0.020	<0.005	<0.005										
BS-SB7-96-4-55.6	55.6			<0.005	0.026	<0.005	<0.005										
BS-SB7-96-4-62.2	62.2			<0.005	0.0055	<0.005	<0.005										

< = Not detected above reporting limit (reporting limit shown)
= Not analyzed

BC = Analysis by BC Laboratories
C = Analysis by Chromolab
LBNL = Analysis by LBNL
VOCs analyzed by EPA Method 8240 or 8260

COPCs = Chemicals of Potential Concern
X = Sample location has been excavated
Concentrations shown in **bold** are above PRGs for residential soil.
*pH reported in standard units
pH analyzed by EPA Method 9040

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)
carbon tetrachloride = 0.24
chloroform = 0.24
1,1-DCA = 590
1,1-DCE = 0.054
Benzene = 0.67
Toluene = 520
Ethylbenzene = 230
Xylene = 210
1,2,4-Trichlorobenzene = 650

SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
Oil & Grease analyzed by EPA Method 413.1
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleu Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40

Table B3.9-1
Soil Sampling Results (mg/kg)
AOC 7-1: Building 46 Former Scrap Yard
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs	SVOCs	Fuels	TPH-D	TPH-G	Oil & Grease
			PRG						
Sample ID	Depth (ft)	Date	Lab						
BS46-92-9-5.5	5.5	Feb-92	C	ND					
BS46-92-9-11	11			ND					
BS46-92-9-15.5	15.5			ND					
BS46-92-9-20.5	20.5			ND					
BS46-92-9-30	30			ND					
BS46-92-9-40.5	40.5			ND					
BS46-92-9-50	50			ND					
BS46-92-9-80	80			ND					
BS46-94-1-4	4	Apr-94	BC	ND		ND			<20
BS46-94-1-9	9			ND		ND			<20
BS46-94-1-14	14			ND		ND			**22**
BS46-94-1-18.9	18.9			ND		ND			<20
BS-SB-46-95-1-5.1	5.1	Aug-95	BC	ND	ND		<10	<1	
BS-SB-46-95-1-10.6	10.6			ND					
BS-SB-46-95-2-5.5	5.5			ND	ND		<10	<1	
BS-SB-46-95-2-10.4	10.4			ND					

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

C = Analysis by Chromolab
BC = Analysis by BC Laboratories
COPCs = Chemicals of Potential Concern
VOCs analyzed by EPA Method 8010 and 8020, 8240, or 8260
SVOCs analyzed by EPA Method 8270
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy N
Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic C
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
Oil & Grease analyzed by EPA Method 413.1

Table B3.10-1
Soil Sampling Results (mg/kg)
AOC 7-6: Building 58 Former Hazardous Materials Storage Area
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs	SVOCs	Fuels	TPH-G	pH
				PCE				
			PRG	5.7				
Sample ID	Depth (ft)	Date	Lab					
BS58-92-8-5.5	5.5	Mar-92	C	<0.005				
BS58-92-8-11	11			0.05				
BS58-92-8-16	16			<0.005				
BS58-92-8-21	21			<0.005				
BS58-92-8-30.8	30.8			<0.005				
BS58-93-3-15	15	May-94	BC	<0.005	ND	ND	<1	
BS58-93-3-19.5	19.5			<0.005	ND	ND	<1	
BS58-93-3-24.5	24.5			<0.005	ND	ND	<1	
BS-MW-58-95-11-4.8	4.8	May-95	BC	<0.005				8.05
BS-MW-58-95-11-9.5	9.5			<0.005				
BS-MW-58-95-11-14.5	14.5			<0.005				8.56
BS-MW-58-95-11-19.9	19.9			<0.005				
BS-MW-58-95-11-25.4	25.4			<0.005				9.91
BS-MW-58-95-11-29.8	29.8			<0.005				
BS-SB-58-95-1-3.6	3.6	May-95	BC	<0.005				8.31
BS-SB-58-95-1-9.9	9.9			<0.005				
BS-SB-58-95-1-14.2	14.2			<0.005				8.40
BS-SB-58-95-1-19	19			<0.005				
BS-SB-58-95-1-29.5	29.5			<0.005				9.57
BS-SB-58-95-2-3.2	3.2			0.017				8.35
BS-SB-58-95-2-5.2	5.2			0.022				
BS-SB-58-95-2-10.2	10.2			<0.005				7.94
BS-SB-58-95-2-14.9	14.9			<0.005				
BS-SB-58-95-2-24.9	24.9			<0.005				8.34
BS-SB-58-95-2-29.5	29.5			<0.005				
BS-MW58-96-12-3	3	Dec-96	BC	<0.005				
BS-MW58-96-12-7	7			<0.005				

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

C = Analysis by Chromolab
BC = Analysis by BC Laboratories
COPCs = Chemicals of Potential Concern
VOCs analyzed by EPA Method 8010 znd 8020, or 8260
SVOCs analyzed by EPA Method 8270
Fuels analyzed by EPA Method 8015M included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, He
Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/W
Hydraulic Oil, and WD-40
TPH-G analyzed by EPA Method 8015M
pH analyzed by EPA Method 9040

Table B3.11-1
Soil Sampling Results (mg/kg)
AOC 10-2: Building 52 Former Hazardous Materials Storage Area
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs				PCBs		Fuels	Oil & Grease
				cis 1,2-DCE	PCE	TCE	Other Compounds Detecte	Aroclor 1254	Aroclor 1260		
			PRG	43	5.7	2.8		0.22	0.22		
Sample ID	Depth (ft)	Date	Lab								
BS52-93-14-4.5	4.5	Nov-93	BC	<0.005	<0.005	<0.005				ND	**45**
BS52-93-14-11	11									ND	65
BS52-93-14-15.8	15.8			<0.005	<0.005	<0.005					
BS52-93-14-25.3	25.3			<0.005	<0.005	<0.005					
BS52-93-14-35	35			<0.005	<0.005	<0.005					
BS52-93-14-46.2	46.2			<0.005	<0.005	<0.005					
BS-SB-52-95-1-3	3	Jun-95	BC					<0.01	<0.01	ND	44
BS-SB-52-95-1-6	6			<0.005	<0.005	<0.005		<0.01	<0.01	Diesel=12	56
BS-SB-52-95-1-10	10			<0.005	<0.005	<0.005		<0.01	<0.01	Diesel=10, Kerosene/Jet Fuel=72	
BS-SB-52-95-1-15.7	15.7			<0.005	<0.005	<0.005				ND	
BS-SB-52-95-2-3	3							<0.02	0.16	Diesel=1300	700
BS-SB-52-95-2-6	6			<0.005	<0.005	<0.005	Chloroform=0.0061	<0.01	<0.01	ND	72
BS-SB-52-95-2-11	11			<0.005	<0.005	<0.005	Chloroform=0.011			ND	
BS-SB-52-95-2-15.8	15.8			<0.005	<0.005	<0.005				ND	
BS-SB52-96-1-1	1	Jul-96	BC					<0.01	<0.01	Crude/Waste Oil=77	22
BS-SB52-96-1-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-1-10	10									ND	<20
BS-SB52-96-2-0.5	0.5							<0.01	0.02	Crude/Waste Oil=59	<20
BS-SB52-96-2-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-2-10	10									ND	<20
BS-SB52-96-3-0.5	0.5							<0.02	0.16	Diesel = 200	370
BS-SB52-96-3-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-3-10	10									ND	<20
BS-SB52-96-4-0.5	0.5							<0.02	0.19	Diesel = 340	160
BS-SB52-96-4-5	5							<0.01	0.14	Diesel = 350	560
BS-SB52-96-4-10	10							<0.01	<0.01	ND	<20
BS-SB52-96-5-1.5	1.5							<0.01	0.02	ND	<20
BS-SB52-96-6-0.5	0.5	Aug-96	BC					0.12	<0.02	Motor Oil=130	630
BS-SB52-96-6-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-6-10	10									ND	<20
BS-SB52-96-7-0.5	0.5							0.14	<0.02	Crude/Waste Oil=22	720

Table B3.11-1
Soil Sampling Results (mg/kg)
AOC 10-2: Building 52 Former Hazardous Materials Storage Area
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs				PCBs		Fuels	Oil & Grease
				cis 1,2-DCE	PCE	TCE	Other Compounds Detecte	Aroclor 1254	Aroclor 1260		
			PRG	43	5.7	2.8		0.22	0.22		
Sample ID	Depth (ft)	Date	Lab								
BS-SB52-96-8-0.5	0.5	Aug-96	BC					<0.01	<0.01	Crude/Waste Oil=25	80
BS-SB52-96-8-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-8-10	10									ND	<20
BS-SB52-96-9-0.5	0.5							0.029	<0.01	Crude/Waste Oil=38	24
BS-SB52-96-9-5	5							<0.01	<0.01	ND	<20
BS-SB52-96-9-10	10									ND	<20
BS-SB52-96-10-0.5	0.5							**0.43**	<0.05	Crude/Waste Oil=92	210
BS-SB52-96-10-5	5							<0.01	<0.01	Kerosene/Jet Fuel=7.0 Crude/Waste Oil=33	<20
BS-SB52-96-10-10	10									Kerosene/Jet Fuel=110 Crude/Waste Oil=140	170
BS-SB52-97-1-0.5	0.5	Mar-97	BC					**1.3**	<0.2		24
BS-SB52-97-1-1.5	1.5							**0.31**	<0.05		36
BS-SB52-97-1-4.8	4.8							<0.01	<0.01		<20
BS-SB52-97-2-0.5	0.5							0.018	<0.01		<20
BS-SB52-97-2-1.5	1.5							0.023	<0.01		<20
BS-SB52-97-2-5	5							0.22	<0.05		<20

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

COPCs = Chemicals of Potential Concern
BC = Analysis by BC Laboratories
Concentrations shown in **bold** are above PRGs for residential soil.

VOCs analyzed by EPA Method 8240 or 8260
PCBs analyzed by EPA Method 8080
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
Oil & Grease analyzed by EPA Method 413.1

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)
Chloroform = 0.24

Table B3.12-1

Soil Sampling Results (mg/kg*)

AOC 10-3: Building 25A Sanitary Sewer System

Concentrations of Organic Constituents

COPCs: Organic solvents

				VOCs		Fuels	TPH-D	TPH-G	Oil & Grease	pH
				TCE	1,1,1-TCA					
				2.8	770					
Sample ID	Depth (ft)	Date	Lab							
MW26-92-11-4	4.0	Mar-92	Q	<0.005	<0.005					
MW26-92-11-9	9.0			<0.005	<0.005					
MW26-92-11-20.5	20.5			<0.005	<0.005					
MW26-92-11-30.2	30.2			<0.005	<0.005					
MW76-93-7-5.5	5.5	Aug-93	C	<0.005	<0.005		<1	<1	<50	
MW76-93-7-15.5	15.5			<0.005	<0.005		<1	<1	<50	
MW76-93-7-26	26.0			<0.005	<0.005		<1	<1	<50	
MW76-93-7-35.5	35.5			<0.005	<0.005		<1	<1	<50	
SB25-95-2-3.7	3.7	Apr-95	BC	<0.005	<0.005	ND				7.68
SB25-95-3-5.3	5.3			<0.005	<0.005	ND				8.37
SB25-95-3-10	10.0			<0.005	<0.005	ND				8.22
SB25-95-3-15.7	15.7			<0.005	<0.005	ND				8.45
SB25-95-3-20.6	20.6			<0.005	<0.005	ND				8.31
SB25-95-3-25	25.0			<0.005	<0.005	ND				8.43
SB25-95-3-30	30.0			<0.005	<0.005	ND				8.33
SB25-95-3-35.5	35.5			<0.005	<0.005	ND				9.02
SS25A-98-1-2	2.0	Jun-98	BC	<0.005	<0.005					
SS25A-98-1-4.1	4.1			<0.005	<0.005					
SS25A-98-2-2	2.0			<0.005	<0.005					
SS25A-98-2-4	4.0			<0.005	<0.005					
SS25A-98-3-1.9	1.9			<0.005	<0.005					
SS25A-98-3-4	4.0			<0.005	<0.005					

Table B3.12-1

Soil Sampling Results (mg/kg*)

AOC 10-3: Building 25A Sanitary Sewer System

Concentrations of Organic Constituents

COPCs: Organic solvents

				VOCs		Fuels	TPH-D	TPH-G	Oil & Grease	pH
				TCE	1,1,1-TCA					
				2.8	770					
Sample ID	Depth (ft)	Date	Lab							
SS25A-98-4-1.8	1.8	Jun-98	BC	<0.005	<0.005					
SS25A-98-4-4.2	4.2			<0.005	<0.005					
SS25A-98-5-1.8	1.8			<0.005	<0.005					
SS25A-98-5-4	4.0			<0.005	<0.005					
SS25A-98-6-2	2.0			<0.005	<0.005					
SS25A-98-6-4.2	4.2			<0.005	<0.005					
SS25A-98-7-2	2.0			<0.005	<0.005					
SS25A-98-8-2	2.0			<0.005	<0.005					
SS25A-98-8-4.2	4.2			<0.005	<0.005					
MW25A-98-7-10.6	10.6	Aug-98	BC	<0.005	<0.005					
MW25A-98-7-15.6	15.6			<0.005	<0.005					
MW25A-98-7-20.3	20.3			<0.005	<0.005					
MW25A-98-7-25.7	25.7			<0.005	<0.005					
MW25A-98-7-30.6	30.6			0.013	<0.005					
MW25A-98-7-35.9	35.9			<0.005	<0.005					
SB25A-98-2-3	3.0	Aug-98	BC	<0.005	<0.005					
SB25A-98-2-3.5	3.5			<0.005	<0.005					
SB25A-98-2-5.6	5.6			<0.005	<0.005					
MW25A-98-6-5.0	5.0	Oct-98	BC	<0.005	<0.005					
MW25A-98-6-11	11.0			<0.005	<0.005					
MW25A-98-6-15	15.0			<0.005	<0.005					
MW25A-98-6-20	20.0			<0.005	<0.005					

Table B3.12-1

Soil Sampling Results (mg/kg*)

AOC 10-3: Building 25A Sanitary Sewer System

Concentrations of Organic Constituents

COPCs: Organic solvents

				VOCs		Fuels	TPH-D	TPH-G	Oil & Grease	pH
				TCE	1,1,1-TCA					
				2.8	770					
Sample ID	Depth (ft)	Date	Lab							
MW25A-98-6-25	25.0	Oct-98	BC	<0.005	<0.005					
MW25A-98-6-30	30.0			<0.005	<0.005					
MW25A-98-6-41.3	41.3			<0.005	<0.005					
MW25A-99-2-6	6.0	Apr-99	BC	<0.005	<0.005					
MW25A-99-2-11	11.0			<0.005	<0.005					
MW25A-99-2-15.3	15.3			<0.005	<0.005					
MW25A-99-2-21	21.0			<0.005	0.015					
MW25A-99-2-26	26.0			<0.005	<0.005					
MW25A-99-2-31	31.0			<0.005	<0.005					

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

COPCs = Chemicals of Potential Concern
BC = Analysis by BC Laboratories
C = Analysis by Chromalab
Q = Analysis by Quanteq Laboratories
VOCs analyzed by EPA Method 8010 and 8020, 8240, or 8260
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasolin
JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
TPH-D analyzed by EPA Method 8015M
TPH-G analyzed by EPA Method 8015M
Oil & Grease analyzed by EPA Method 413.1

pH analyzed by EPA Method 9040
*pH reported in standard units

Table B3.13-1
Soil Sampling Results (mg/kg)
AOC 14-6: Building 10 and 80 Sanitary Sewers
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs	SVOCs	Fuels
Sample ID	Depth (ft)	Date	Lab			
SB80-96-1-5.3	5.3	Jul-96	BC	ND		ND
SB80-96-1-10.3	10.3			ND		ND
SB2-96-1-24.8	24.8	Mar-98	BC	ND	ND	
SB2-96-2-19	19	Apr-98	BC	ND	ND	

ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

COPCs = Chemicals of Potential Concern
BC = Analysis by BC Labs
VOCs analyzed by EPA Method 8260
SVOCs analyzed by EPA Method 8270
Fuels analyzed by EPA Method 8015M include: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/ Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40

Table B3.14-1
Soil Sampling Results (mg/kg)
Building 52A Area Source Investigation
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs				PCBs	
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected	Aroclor 1254	Aroclor 1260
			PRG	43	5.7	2.8		0.22	0.22
Sample ID	Depth (ft)	Date	Lab						
BS-SB52A-98-1-5.6	5.6	Apr-98	BC	0.0058	0.16	0.043			
BS-SB52A-98-1-9.5	9.5			0.0075	0.052	0.025	Chloroform=0.0051		
BS-SB52A-98-1-14.1	14.1			<0.005	<0.005	<0.005			
BS-SB52A-98-1-18.6	18.6			<0.005	<0.005	<0.005			
BS-SB52A-98-1-29.2	29.2			<0.005	<0.005	<0.005			
BS-SB52A-98-1-39.2	39.2			<0.005	<0.005	<0.005			
BS-SB52A-98-1-48.5	48.5			<0.005	<0.005	<0.005			
BS-SB52A-98-1-58.5	58.5			<0.005	<0.005	<0.005			
BS-SB52A-00-1-2	2	Mar-00	BC	<0.005	<0.005	<0.005		<0.01	0.014
BS-SB52A-00-1-7	7			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-1-11	11			<0.005	<0.005	<0.005			
BS-SB52A-00-2-2.5	2.5			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-2-8	8			<0.005	<0.005	0.023			
BS-SB52A-00-2-11.5	11.5			<0.005	<0.005	0.011			
BS-SB52A-00-3-2.5	2.5			0.0067	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-4-2.5	2.5			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-4-7.5	7.5			<0.005	0.039	0.0095			
BS-SB52A-00-4-12	12			<0.005	0.0052	<0.005			
BS-SB52A-00-5-2.5	2.5			0.017	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-5-7.5	7.5			<0.005	0.20	0.011	Hexachlorobutadiene=0.015 Naphthalene=0.0066 1,2,3-Trichlorobenzene=0.014 1,2,4-Trichlorobenzene=0.012		
BS-SB52A-00-5-9	9			<0.005	0.055	<0.005			
BS-SB52A-00-6-2.5	2.5			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-6-7.5	7.5			<0.005	0.19	0.013			
BS-SB52A-00-6-11	11			<0.005	<0.005	<0.005			
BS-SB52A-00-7-3	3			<0.005	0.018	0.020		<0.01	<0.01
BS-SB52A-00-7-8	8			<0.005	0.0055	<0.005			
BS-SB52A-00-7-9.5	9.5			<0.005	0.0079	<0.005			

Table B3.14-1
Soil Sampling Results (mg/kg)
Building 52A Area Source Investigation
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs				PCBs	
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected	Aroclor 1254	Aroclor 1260
			PRG	43	5.7	2.8		0.22	0.22
Sample ID	Depth (ft)	Date	Lab						
BS-SB52A-00-8-2.5	2.5	Mar-00	BC	0.027	0.73	0.35		<0.01	0.011
BS-SB52A-00-8-7.5	7.5			<0.005	0.26	<0.005		<0.01	<0.01
BS-SB52A-00-8-11.5	11.5			<0.005	0.0052	<0.005			
BS-SB52A-00-9-2.5	2.5			0.025	4.7	0.16		<0.01	<0.01
BS-SB52A-00-9-7.5	7.5			<0.005	0.050	<0.005			
BS-SB52A-00-9-9.25	9.25			<0.005	0.030	<0.005			
BS-SB52A-00-10-3	3			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-10-5	5			<0.005	0.017	<0.005			
BS-SB52A-00-10-9.5	9.5			<0.005	<0.005	<0.005			
BS-SB52A-00-10-11.25	11.25			<0.005	0.0099	0.0092			
BS-SB52A-00-11-3	3			<0.005	0.056	0.032		<0.01	<0.01
BS-SB52A-00-11-5	5			<0.005	0.037	<0.005			
BS-SB52A-00-11-10	10			<0.005	0.039	0.0059			
BS-SB52A-00-11-11	11			<0.005	0.0064	<0.005			
BS-SB52A-00-12-3	3			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-12-5	5			<0.005	<0.005	0.011			
BS-SB52A-00-12-10	10			<0.005	0.016	0.014			
BS-SB52A-00-13-3	3			0.044	0.0055	0.027	p-isopropyltoluene=0.0057	<0.01	<0.01
BS-SB52A-00-13-5	5			0.054	0.0099	0.053	p-isopropyltoluene=0.0077		
BS-SB52A-00-13-10	10			<0.005	<0.005	<0.005			
BS-SB52A-00-13-11	11			<0.005	<0.005	<0.005			
BS-SB52A-00-14-3	3			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-14-5	5			0.0081	0.007	0.024			
BS-SB52A-00-14-10	10			<0.005	<0.005	0.0054			
BS-SB52A-00-14-11	11			<0.005	<0.005	<0.005			
BS-SB52A-00-15-3	3			<0.005	0.021	<0.005		<0.01	<0.01
BS-SB52A-00-15-5	5			<0.005	0.0099	0.014			
BS-SB52A-00-15-9.5	9.5			<0.005	<0.005	<0.005			
BS-SB52A-00-16-2	2			<0.005	<0.005	<0.005		<0.01	<0.01

Table B3.14-1
Soil Sampling Results (mg/kg)
Building 52A Area Source Investigation
Concentrations of Organic Constituents
COPCs: Organic solvents

				VOCs				PCBs	
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected	Aroclor 1254	Aroclor 1260
			PRG	43	5.7	2.8		0.22	0.22
Sample ID	Depth (ft)	Date	Lab						
BS-SB52A-00-16-5	5	Mar-00	BC	0.0057	<0.005	<0.005	Benzene=0.0067 Toluene=0.010		
BS-SB52A-00-16-9	9			0.048	<0.005	0.036			
BS-SB52A-00-17-1	1			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-17-5	5			<0.005	<0.005	<0.005			
BS-SB52A-00-17-10	10			0.0092	<0.005	0.0060			
BS-SB52A-00-18-1	1			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-18-5	5			<0.005	<0.005	<0.005			
BS-SB52A-00-18-10	10			<0.005	<0.005	<0.005			
BS-SB52A-00-19-3.5	3.5			<0.005	<0.005	<0.005		<0.01	<0.01
BS-SB52A-00-19-5	5			<0.005	<0.005	<0.005			
BS-SB52A-00-19-9.5	9.5			0.0058	<0.005	0.0051			
BS-SB52A-00-20-3.5	3.5			<0.005	0.055	0.0061		<0.01	<0.01
BS-SB52A-00-20-5	5			<0.005	0.012	0.0095			
BS-SB52A-00-20-10	10			<0.005	<0.005	<0.005			
BS-SB52A-00-20-11	11			<0.005	<0.005	<0.005			

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

COPCs = Chemicals of Potential Concern
BC = Analysis by BC Laboratories
VOCs analyzed by EPA Method 8240 or 8260
PCBs analyzed by EPA Method 8080

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,2,4-Trichlorobenzene = 650	Hexachlorobutadiene = 6.2
Benzene = 0.67	Naphthalene = 56
Chloroform = 0.24	Toluene = 520

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

Location Description	Sample ID	Depth (ft)	Date	Lab	VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
AOC 2-4: Old Town Groundwater Solvent Plume										
MW53-95-12	BS-MW-53-95-12-5.7	5.7	Jul-95	BC	<0.005	<0.005				
	BS-MW-53-95-12-10.2	10.2			<0.005	<0.005				
	BS-MW-53-95-12-15	15			<0.005	<0.005				
	BS-MW-53-95-12-25.2	25.2			<0.005	<0.005				
	BS-MW-53-95-12-40.8	40.8			0.077	0.017				
	BS-MW-53-95-12-50.3	50.3			<0.005	<0.005				
MW58-95-18	BS-MW58-95-18-4	4	Aug-95	BC	<0.005	<0.005				
	BS-MW58-95-18-9	9			<0.005	<0.005				
	BS-MW58-95-18-13.5	13.5			0.0069	<0.005	p-isopropyltoluene=0.048			
	BS-MW58-95-18-18.3	18.3			<0.005	<0.005				
MW58-95-19	BS-MW58-95-19-5.6	5.6	Aug-95	BC	0.0051	<0.005				
	BS-MW58-95-19-10	10			<0.005	<0.005				
	BS-MW58-95-19-15.4	15.4			<0.005	<0.005				
	BS-MW58-95-19-25.5	25.5			<0.005	<0.005				
	BS-MW58-95-19-30	30			<0.005	<0.005				
MW58-95-20	BS-MW58-95-20-5.4	5.4	Aug-95	BC	<0.005	<0.005				
	BS-MW58-95-20-10.6	10.6			<0.005	<0.005				
	BS-MW58-95-20-20.9	20.9			<0.005	<0.005				
	BS-MW58-95-20-30.6	30.6			<0.005	<0.005				
	BS-MW58-95-20-35	35			<0.005	<0.005				
MW7B-95-21	BS-MW7B-95-21-5	5	Aug-95	BC	0.13	0.095	cis-1,2-DCE=0.011			
	BS-MW7B-95-21-15.2	15.2			0.011	<0.005				
	BS-MW7B-95-21-24.6	24.6			<0.005	<0.005				
	BS-MW7B-95-21-34.8	34.8			0.026	0.014				
	BS-MW7B-95-21-40.4	40.4			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
MW7-95-22	BS-MW7-95-22-4.6	4.6	Aug-95	BC	<0.005	<0.005			Crude/Waste Oil=320	
	BS-MW7-95-22-10.3	10.3			<0.005	<0.005				
	BS-MW7-95-22-14.5	14.5			0.0052	<0.005				
	BS-MW7-95-22-20.1	20.1			0.013	<0.005				
	BS-MW7-95-22-25	25			0.011	<0.005				
	BS-MW7-95-22-30.2	30.2			<0.005	<0.005				
	BS-MW7-95-22-35.2	35.2			0.055	0.033				
	BS-MW7-95-22-40	40			0.022	<0.005				
MW7-95-23	BS-MW7-95-23-10	10	Dec-95	BC	0.017	<0.005				
	BS-MW7-95-23-20.5	20.5			0.019	<0.005				
	BS-MW7-95-23-30.7	30.7			0.73	0.13	Carbon Tetrachloride=0.0067 1,1,1,2-PCA=0.0056			
	BS-MW7-95-23-40	40			0.22	0.35	Carbon Tetrachloride=0.018			
	BS-MW7-95-23-41	41			0.17	0.15	Carbon Tetrachloride=0.005			
	BS-MW7-95-23-41.7	41.7			0.31	0.12	Carbon Tetrachloride=0.0053			
	BS-MW7-95-23-43	43			0.027	0.024				
	BS-MW7-95-23-44	44			0.049	0.028				
	BS-MW7-95-23-44.9	44.9			0.015	0.014				
	BS-MW7-95-23-45.6	45.6			0.011	0.013				
	BS-MW7-95-23-46.5	46.5			0.0075	0.018				
	BS-MW7-95-23-47.2	47.2			<0.005	<0.005				
	BS-MW7-95-23-50.3	50.3			0.014	0.024				
	BS-MW7-95-23-58	58			0.029	0.0057				
SB-7B-95-6 (converted to MW7B-95-25)	BS-SB-7B-95-6-4.6	4.6	Dec-95	BC	0.040	<0.005				
	BS-SB-7B-95-6-14.1	14.1			0.11	<0.005				
	BS-SB-7B-95-6-24.2	24.2			0.068	<0.005				
	BS-SB-7B-95-6-34.6	34.6			0.16	<0.03				
	BS-SB-7B-95-6-39.2	39.2			0.59	<0.05				
	BS-SB-7B-95-6-44.5	44.5			0.55	0.24				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 7B	BS-SB-7B-95-7-4	4	Dec-95	BC	<0.005	<0.005				
	BS-SB-7B-95-7-14	14			0.36	<0.005				
	BS-SB-7B-95-7-24.1	24.1			<0.005	<0.005				
	BS-SB-7B-95-7-34.1	34.1			0.016	<0.005				
	BS-SB-7B-95-7-44.5	44.5			4.1	2.4				
	BS-SB-7B-95-7-54.4	54.4			<0.005	<0.005				
	BS-SB-7B-95-7-59.4	59.4			<0.005	<0.005				
SB-7B-95-8 (converted to MW7B-95-24)	BS-SB-7B-95-8-3.7	3.7	Dec-95	BC	<0.005	<0.005				
	BS-SB-7B-95-8-13.5	13.5			<0.005	<0.005				
	BS-SB-7B-95-8-24	24			<0.005	<0.005				
	BS-SB-7B-95-8-34	34			<0.005	<0.005				
	BS-SB-7B-95-8-43.5	43.5			<0.005	<0.005				
	BS-SB-7B-95-8-54.1	54.1			0.053	0.015				
	BS-SB-7B-95-8-64	64			0.11	0.09	cis-1,2-DCE=0.0059			
	BS-SB-7B-95-8-68.5	68.5			<0.005	<0.005				
	BS-SB-7B-95-8-74	74			<0.005	<0.005				
	BS-SB-7B-95-8-78.9	78.9			<0.005	<0.005				
Building 7C	BS-SB7C-95-1-4	4	Dec-95	BC	<0.005	<0.005				
	BS-SB7C-95-1-14.5	14.5			<0.005	<0.005				
	BS-SB7C-95-1-24.3	24.3			<0.005	<0.005				
	BS-SB7C-95-1-34.6	34.6			<0.005	<0.005				
	BS-SB7C-95-1-39.3	39.3			<0.005	<0.005				
	BS-SB7C-95-1-44.2	44.2			<0.005	<0.005				
Y Parking Lot	BS-SBY-96-1-Comp		Feb-96	BC	<0.005	<0.005				
	BS-SBY-96-2-Comp				<0.005	<0.005				
	BS-SBY-96-3-Comp				<0.005	<0.005				
Building 52B	BS-SB52B-96-1-4.3	4.3	Apr-96	CLS	<0.005	<0.005				
	BS-SB52B-96-1-14.6	14.6			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 52B	BS-SB52B-96-1-24.2	24.2	Apr-96	CLS	<0.005	<0.005				
	BS-SB52B-96-1-34	34			<0.005	<0.005				
	BS-SB52B-96-1-44.3	44.3			<0.005	<0.005				
	BS-SB52B-96-1-54.5	54.5			<0.005	<0.005				
	BS-SB52B-96-1-74	74			<0.005	<0.005				
	BS-SB52B-96-1-79.8	79.8			<0.005	<0.005				
MW51-96-3	BS-MW51-96-3-15	15	Apr-96	CLS	<0.005	<0.005				
	BS-MW51-96-3-25	25			<0.005	<0.005				
MW53-96-1 (MW91-7)	BS-MW53-96-1-71	71	Apr-96	CLS	<0.005	<0.005				
	BS-MW53-96-1-75	75			<0.005	<0.005				
	BS-MW53-96-1-79.5	79.5			<0.005	<0.005				
Building 53	BS-SB53-96-1-27.6	27.6	Jun-96	CLS	0.63	0.30				
	BS-SB53-96-1-39.8	39.8			0.16	0.32				
	BS-SB53-96-1-50	50			1.0	0.85				
	BS-SB53-96-1-60.7	60.7			0.27	0.17				
	BS-SB53-96-2-24.8	24.8			0.075	0.30				
	BS-SB53-96-2-29.4	29.4			0.16	0.35				
	BS-SB53-96-2-40	40			0.090	0.21				
	BS-SB53-96-3-9.5	9.5			<0.005	<0.005				
	BS-SB53-96-3-14.6	14.6			<0.005	<0.005				
	BS-SB53-96-3-19.1	19.1			0.0053	<0.005				
	BS-SB53-96-3-30	30			0.060	0.068	1,1-DCE=0.0073 cis-1,2-DCE=0.0064			
	BS-SB53-96-4-10.1	10.1	Jul-96	BC	<0.005	<0.005				
	BS-SB53-96-4-20.2	20.2			<0.005	<0.005				
	BS-SB53-96-4-25	25			<0.005	<0.005				
	BS-SB53-96-4-33.5	33.5			<0.005	<0.005				
	BS-SB53-96-4-40.5	40.5			0.021	0.0093				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 53	BS-SB53-96-4-50	50	Jul-96	BC	<0.005	0.0055				
	BS-SB53-96-4-55.4	55.4			<0.005	<0.005				
	BS-SB53-96-5-10.6	10.6			<0.005	<0.005				
	BS-SB53-96-5-20.5	20.5			0.023	0.021	cis-1,2-DCE=0.0098			
	BS-SB53-96-5-25.8	25.8			0.022	0.039				
	BS-SB53-96-5-30.8	30.8			<0.005	<0.005				
Building 58	BS-SB58-96-1-8.5	8.5	Jul-96	BC	<0.005	0.0066	Toluene=0.011			
	BS-SB58-96-1-15.5	15.5			0.0066	0.080	cis-1,2-DCE=0.0075			
	BS-SB58-96-1-20.5	20.5			<0.005	<0.005				
	BS-SB58-96-1-25.5	25.5			<0.005	<0.005				
	BS-SB58-96-1-30.1	30.1			<0.005	<0.005				
	BS-SB58-96-1-35.1	35.1			<0.005	<0.005				
	BS-SB58-96-2-20	20	Aug-96	BC	0.018	0.012				
	BS-SB58-96-2-25.9	25.9			<0.005	<0.005				
	BS-SB58-96-2-31	31			<0.005	<0.005				
Building 6	BS-SB6-96-1-15.5	15.5	Aug-96	BC	<0.005	<0.005				
	BS-SB6-96-1-20	20			<0.005	<0.005				
	BS-SB6-96-1-25.5	25.5			<0.005	<0.005			ND	
	BS-SB6-96-1-35.5	35.5			<0.005	<0.005			ND	
Building 27	BS-SB27-96-1-10.2	10.2	Aug-96	BC	<0.005	<0.005				
	BS-SB27-96-1-20.1	20.1			<0.005	<0.005				
	BS-SB27-96-1-30.7	30.7			<0.005	<0.005				
	BS-SB27-96-1-35.6	35.6			<0.005	<0.005				
	BS-SB27-96-1-40.1	40.1			<0.005	<0.005				
	BS-SB27-96-1-45.7	45.7			<0.005	<0.005				
	BS-SB27-96-1-50.5	50.5			<0.005	<0.005				
Building 46 Grotto	BS-SB46Gr-96-1-5.6	5.6	Sep-96	BC	<0.005	<0.005				
	BS-SB46Gr-96-1-10.5	10.5			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 46 Grotto	BS-SB46Gr-96-1-15.8	15.8	Sep-96	BC	<0.005	<0.005				
	BS-SB46Gr-96-1-20.8	20.8			<0.005	<0.005				
	BS-SB46Gr-96-2-5.4	5.4			<0.005	<0.005				
	BS-SB46Gr-96-2-10.6	10.6			<0.005	<0.005				
	BS-SB46Gr-96-2-21	21			<0.005	<0.005				
	BS-SB46Gr-96-2-26	26			<0.005	<0.005				
	BS-SB46Gr-96-2-31	31			<0.005	<0.005				
	BS-SB46Gr-96-2-35.3	35.3			<0.005	<0.005				
	BS-SB46Gr-96-3-5	5			<0.005	<0.005				
	BS-SB46Gr-96-3-15.5	15.5			<0.005	<0.005				
	BS-SB46Gr-96-3-20.5	20.5			<0.005	<0.005				
	BS-SB46Gr-96-3-25.6	25.6			<0.005	<0.005				
	BS-SB46Gr-96-3-30.7	30.7			<0.005	<0.005				

AOC 10-5: Solvent Contaminated Groundwater in Area 10

MW52-95-2	BS-MW52-95-2-2.6	2.6	Aug-95	BC	<0.005	<0.005				7.81
	BS-MW52-95-2-10	10			<0.005	<0.005				8.60
	BS-MW52-95-2-29	29			<0.005	<0.005				
	BS-MW52-95-2-39.7	39.7			<0.005	<0.005				
	BS-MW52-95-2-49	49			<0.005	<0.005				
	BS-MW52-95-2-59.3	59.3			<0.005	<0.005				
	BS-MW52-95-2-69	69			<0.005	<0.005				
	BS-MW52-95-2-79	79			<0.005	<0.005				
	BS-MW52-95-2-89	89			<0.005	<0.005				
	BS-MW52-95-2-100	100			<0.005	<0.005				
	BS-MW52-95-2-110.3	110.3			<0.005	<0.005				
MW25-95-5	BS-MW25-95-5-3.1	3.1	Aug-95	BC	<0.005	<0.005				
	BS-MW25-95-5-10	10			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
MW25-95-5	BS-MW25-95-5-20	20	Aug-95	BC	<0.005	<0.005				
	BS-MW25-95-5-30.1	30.1			<0.005	<0.005				
	BS-MW25-95-5-98.1	98.1			<0.005	<0.005				
MW25A-95-15	BS-MW25A-95-15-5	5	Aug-95	BC	<0.005	<0.005				7.86
	BS-MW25A-95-15-15.4	15.4			<0.005	<0.005				
	BS-MW25A-95-15-25.3	25.3			<0.005	<0.005				
	BS-MW25A-95-15-35	35			<0.005	<0.005				
	BS-MW25A-95-15-45	45			<0.005	<0.005				
	BS-MW25A-95-15-50	50			<0.005	<0.005				
MW25-95-26	BS-MW25-95-26-11	11	Apr-96	CLS	<0.005	<0.005				
	BS-MW25-95-26-21	21			<0.005	<0.005				
	BS-MW25-95-26-30	30			<0.005	<0.005				
	BS-MW25-95-26-40	40			<0.005	<0.005				
	BS-MW25-95-26-49	49			<0.005	<0.005				
MW4-96-2	BS-MW4-96-2-5	5	Apr-96	CLS	<0.005	<0.005				
	BS-MW4-96-2-15	15			<0.005	<0.005				
	BS-MW4-96-2-25	25			<0.005	<0.005				
	BS-MW4-96-2-35	35			<0.005	<0.005				
	BS-MW4-96-2-45	45			<0.005	<0.005				
	BS-MW4-96-2-55	55			<0.005	<0.005				
	BS-MW4-96-2-65.5	65.5			<0.005	<0.005				
Building 25A	BS-SB25A-96-1-5.5	5.5	Jul-96	BC	<0.005	<0.005				
	BS-SB25A-96-1-15.4	15.4			<0.005	<0.005				
	BS-SB25A-96-1-25.1	25.1			<0.005	<0.005				
	BS-SB25A-96-1-29.8	29.8			<0.005	<0.005				
	BS-SB25A-96-1-34.8	34.8			<0.005	<0.005				
	BS-SB25A-96-1-39.8	39.8			<0.005	<0.005				
	BS-SB25A-96-2-3.7	3.7			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 25A	BS-SB25A-96-2-8.8	8.8	Jul-96	BC	<0.005	<0.005				
	BS-SB25A-96-2-13.6	13.6			<0.005	<0.005				
	BS-SB25A-96-2-18.6	18.6			<0.005	<0.005				
	BS-SB25A-96-2-23.5	23.5			<0.005	<0.005				
	BS-SB25A-96-2-28.5	28.5			<0.005	0.013				
	BS-SB25A-96-2-33.8	33.8			<0.005	<0.005				
	BS-SB25A-96-2-39	39			<0.005	<0.005				
	BS-SB25A-96-3-6	6	Aug-96	BC	<0.005	<0.005				
	BS-SB25A-96-3-10.6	10.6			<0.005	<0.005				
	BS-SB25A-96-3-15.7	15.7			<0.005	<0.005				
	BS-SB25A-96-3-20.6	20.6			<0.005	<0.005				
	BS-SB25A-96-3-25.8	25.8			<0.005	0.040				
	BS-SB25A-96-3-35	35			<0.005	<0.005				
	BS-SB25A-96-3-40	40			<0.005	<0.005				
MW25A-98-3 (SB25A-98-1)	BS-SB25A-98-1-5	5	Apr-98	BC	<0.005	<0.005				
	BS-SB25A-98-1-9.2	9.2			<0.005	<0.005				
	BS-SB25A-98-1-14.3	14.3			<0.005	0.0077				
	BS-SB25A-98-1-19.5	19.5			<0.005	<0.005				
	BS-SB25A-98-1-29.3	29.3			<0.005	0.052	1,1-DCE=0.0058			
	BS-SB25A-98-1-39	39			<0.005	<0.005				
	BS-SB25A-98-1-49.1	49.1			<0.005	<0.005				
MW52A-98-8	BS-MW52A-98-8-6	6	Sep-98	BC	<0.005	<0.005				
	BS-MW52A-98-8-9.5	9.5			<0.005	<0.005				
	BS-MW52A-98-8-14.5	14.5			<0.005	<0.005				
	BS-MW52A-98-8-19.5	19.5			<0.005	<0.005				
	BS-MW52A-98-8-24.5	24.5			<0.005	<0.005				
	BS-MW52A-98-8-29.5	29.5			<0.005	<0.005				
	BS-MW52A-98-8-34.5	34.5			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
MW52A-98-8	BS-MW52A-98-8-39.5	39.5	Sep-98	BC	<0.005	<0.005				
	BS-MW52A-98-8-49.5	49.5			<0.005	<0.005				
	BS-MW52A-98-8-54.5	54.5			<0.005	<0.005				
	BS-MW52A-98-8-59.5	59.5			<0.005	<0.005				
	BS-MW52A-98-8-63.5	63.5			<0.005	<0.005				
	BS-MW52A-98-8-69	69			<0.005	<0.005				
	BS-MW52A-98-8-74	74			<0.005	<0.005				
MW52-98-9	BS-MW52-98-9-5.8	5.8	Sep-98	BC	<0.005	<0.005				
	BS-MW52-98-9-11	11			<0.005	<0.005				
	BS-MW52-98-9-40	40			<0.005	<0.005				
	BS-MW52-98-9-60	60			<0.005	<0.005				
	BS-MW52-98-9-80	80			<0.005	<0.005				
MW25-98-10	BS-MW25-98-10-5	5	Sep-98	BC	<0.005	<0.005				
	BS-MW25-98-10-10	10			<0.005	<0.005				
	BS-MW25-98-10-20.7	20.7			<0.005	<0.005				
	BS-MW25-98-10-90	90			<0.005	<0.005				
MW25A-99-5	BS-MW25A-99-5-2.6	2.6	Jul-99	BC	<0.005	<0.005				
	BS-MW25A-99-5-6	6			<0.005	<0.005				
	BS-MW25A-99-5-8.1	8.1			<0.005	<0.005	Methyl-t-butyl ether=5.6			
	BS-MW25A-99-5-10	10			<0.005	<0.005				
	BS-MW25A-99-5-14.4	14.4			<0.005	<0.005				
	BS-MW25A-99-5-18.5	18.5			<0.005	<0.005				
	BS-MW25A-99-5-24	24			<0.005	<0.005				
	BS-MW25A-99-5-34.4	34.4			<0.005	<0.005				
	BS-MW25A-99-5-44	44			<0.005	<0.005				
Building 5	BS-SB5-97-1-6	6	Feb-97	BC	<0.005	0.0071	cis-1,2-DCE=0.026			
	BS-SB5-97-1-11	11			<0.005	0.0064	cis-1,2-DCE=0.027			
	BS-SB5-97-2-5.1	5.1			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 5	BS-SB5-97-3-5.1	5.1	Feb-97	BC	<0.005	<0.005				
	BS-SB5-97-3A-6	6			<0.005	<0.005				
	BS-SB5-97-3A-11	11			<0.005	<0.005				
	BS-SB5-97-4-5.1	5.1			<0.005	<0.005				
	BS-SB5-97-5-5	5			<0.005	<0.005				
	BS-SB5-97-6-6	6			<0.005	<0.005				
	BS-SB5-97-6-11	11			<0.005	<0.005				
	BS-SB5-97-7-6	6			<0.005	<0.005				
	BS-SB5-97-7-11	11			<0.005	0.015	cis-1,2-DCE=0.15			
	BS-SB5-97-8-6	6			<0.005	<0.005				
	BS-SB5-97-8-11	11			<0.005	<0.005	cis-1,2-DCE=0.0093			
Building 5A	BS-SB5A-98-1-3.5	3.5	Apr-98	BC	<0.005	<0.005				
	BS-SB5A-98-1-8.8	8.8			<0.005	<0.005				
	BS-SB5A-98-1-14.1	14.1			<0.005	<0.005				
	BS-SB5A-98-1-19.3	19.3			<0.005	<0.005				
	BS-SB5A-98-1-29.5	29.5			0.0068	<0.005				
	BS-SB5A-98-1-38.9	38.9			<0.005	<0.005				
Building 25A	BS-SB25A-98-2-3	3	Aug-98	BC	<0.005	<0.005				
	BS-SB25A-98-2-3.5	3.5			<0.005	<0.005				
	BS-SB25A-98-2-5.6	5.6			<0.005	<0.005				
Building 44	BS-SB44-98-1-5.6	5.6	Apr-98	BC	<0.005	<0.005				
	BS-SB44-98-1-9.1	9.1			<0.005	<0.005				
	BS-SB44-98-1-14.1	14.1			<0.005	<0.005				
	BS-SB44-98-1-19	19			<0.005	<0.005				
	BS-SB44-98-1-29.1	29.1			<0.005	<0.005				
	BS-SB44-98-1-44	44			<0.005	<0.005				

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
Building 52A	BS-SB52A-98-1-5.6	5.6	Apr-98	BC	0.16	0.043	cis-1,2-DCE=0.0058			
	BS-SB52A-98-1-9.5	9.5			0.052	0.025	Chloroform=0.0051 cis-1,2-DCE=0.0075			
	BS-SB52A-98-1-14.1	14.1			<0.005	<0.005				
	BS-SB52A-98-1-18.6	18.6			<0.005	<0.005				
	BS-SB52A-98-1-29.2	29.2			<0.005	<0.005				
	BS-SB52A-98-1-39.2	39.2			<0.005	<0.005				
	BS-SB52A-98-1-48.5	48.5			<0.005	<0.005				
	BS-SB52A-98-1-58.5	58.5			<0.005	<0.005				
Other soil sampling not associated with groundwater plumes										
Building 6	BS-SB6-96-2-6	6	Nov-96	BC	<0.005	<0.005			Crude/Waste Oil=27	
	BS-SB6-96-2-11	11			<0.005	<0.005			ND	
	BS-SB6-96-2-15.7	15.7			<0.005	<0.005			ND	
	BS-SB6-96-2-20	20			<0.005	<0.005			Diesel=12	
	BS-SB6-96-2-30.1	30.1			<0.005	<0.005			ND	
	BS-SB6-96-2-35	35			<0.005	<0.005			ND	
	BS-SB6-96-2-43	43			<0.005	<0.005			ND	
	BS-SB6-96-2-55	55			<0.005	<0.005			ND	
MP7-99-1A	BS-MP7-99-1A-8.75	8.75	Feb-99	BC	0.017	<0.005				
	BS-MP7-99-1A-18.75	18.75			<0.005	<0.005				
MP7-99-2A	BS-MP7-99-2A-8.5	8.5			<0.005	<0.005				
	BS-MP7-99-2A-18.5	18.5			<0.005	<0.005				
	BS-MP7-99-2A-28.8	28.8			0.041	<0.005				
MP7-99-1B	BS-MP7-99-1B-8.8	8.8			0.0072	<0.005				
	BS-MP7-99-1B-18.5	18.5			0.0078	<0.005				
	BS-MP7-99-1B-29	29			0.058	0.011	cis-1,2-DCE=0.011			

Table B3.16-1
Soil Samples Collected for Investigation of Groundwater Plumes
Concentrations of Organics and Fuels
(Concentrations in mg/kg*)

					VOCs			PCBs	Fuel Identification	pH
					PCE	TCE	Other Compounds Detected			
				PRG	5.7	2.8				
Location Description	Sample ID	Depth (ft)	Date	Lab						
MP7-99-1B	BS-MP7-99-1B-39	39	Feb-99	BC	0.11	0.026				
	BS-MP7-99-1B-48.5	48.5			0.0051	0.016				
MP7-99-2B	BS-MP7-99-2B-8.6	8.6			<0.005	<0.005				
	BS-MP7-99-2B-19	19			<0.005	<0.005				
	BS-MP7-99-2B-28.6	28.6			<0.005	<0.005				
	BS-MP7-99-2B-38.5	38.5			<0.005	<0.005				
	BS-MP7-99-2B-48.7	48.7			0.73	0.24	Carbon Tetrachloride=0.022			
Building 58	BS-SB58-98-7-13.7	13.7	May-98	BC	<0.005	<0.005				

ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

BC = Analysis by BC Laboratories
*Reported as Total Petroleum Hydrocarbons
pH reported in standard units

VOCs analyzed by EPA Method 8260
SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
Fuel Identification analyzed by EPA Method 8015M, included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzin, Gasoline, JP4, JP5, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40
TPH-Diesel analyzed by EPA Method 8015
TPH-Gas analyzed by EPA Method 8015
Oil & Grease analyzed by EPA Method 413.1
pH analyzed by EPA Method 9040

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

Chloroform = 0.24
Carbon tetrachloride = 0.24
cis-1,2-DCE = 43
1,1,1,2-PCA = 3.0
Toluene = 520
1,1-DCE = 0.054
Methylene chloride = 8.9

Table B4.3-1
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW90-2																																						
		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	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	May-99	Sep-99	Nov-99	Mar-00	May-00
Aromatic and 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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
tert-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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<3	<3	<3	<30	<3	<3	<3	<3	<3	<3	<3
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	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<10	<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	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5	<1	<1	<1	<10	<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	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<0.5	<2	<2	<1	<10	<1	<5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<20	<2	<2	<2	<2	<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	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	1.8	5.9	7.1	<10	2.7	2.7	1.3	2.9	2.6	<1	<1
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	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
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	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	1.4	<1	<1	<10	<1	<1	<1	1.7	1.4	<1	<1
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	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
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	3.4	2.9	4.6	<10	<1	<1	1.5	12.0	7.3	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	1.6	2.1	2.7
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	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<10	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<10	<1	<1	<1	<1	<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	<10	<1	<5	<1	<1	<1	<10	<1	<1	<1	<1	<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	<10	<1	<5	<1	<1	<1	<10	<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	<10	<1	<5	<1	<1	<1	<10	<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	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<2	<20	<2	<10	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	149.7	419	237	280.0	398.6	416	199.0	572.8	183.1	340.0	370	360.0	280.0	390.0	241.0	338	357.0	310.0	305.0	916.0	980.0	638.0	560.0	520.0	330.0	514.0	332.0	360.0	121.0	121.0	137.0	132.0	147.0	125.0	117.0	121.0	88.2	122.0
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	2.5	<1	<1	<10	<1	<1	<1	<1	<1	2.3	<1
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	1.5	<1	<1	<10	<1	<1	<1	<1	<1	1.0	<1
Trichloroethane	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	38.4	33.0	27.3	72.7	95.5	53.1	55.4	52.4	36.8	41.4	34.5	30.6	21.5	17.7	18.2	67.1	51.4	4.3	6.6
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	<1	<1	<1	<10	<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	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<5	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		238.5	478.4	316.0	360.8	522.2	492	230.8	710.0	259.7	413.4	449	409.3	319.1	445.3	290.3	381	422.7	386.1	471.1	975.3	1031.5	682.8	651.8	647.4	383.1	582.9	384.4	427.4	171.2	167.2	167.6	156.2	167.4	146.0	200.7	185.3	97.9	131.3
Total Concentration of VOCs		238.5	478.4	316.0	360.8	522.2	492	230.8	710.0	259.7	413.4	449	409.3	319.1	445.3	290.3	381	422.7	386.1	471.1	975.3	1031.5	682.8	651.8	647.4	383.1	582.9	384.4	427.4	171.2	167.2	167.6	156.2	167.4	146.0	200.7	185.3	97.9	131.3

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
(S) = Split sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

THIS WELL WAS DEEPENED, AND RENAMED TO MW53-96-1

Constituent	MCL	MW91-7 Dec-92	Feb-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Aug-94	Sep-94	Dec-94*	Feb-95*	Mar-95*	May-95*	(D)	Jul-95	(D)	(S)*	Aug-95	Sep-95	Nov-95	Mar-96
Aromatic and Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	5.5	<1	<1	<0.5	<1	<2	<1	<1
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	1.1	<1	<1	<0.5	<1	<2	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
tert-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	1.2	<1	<1	<0.5	<1	<2	<2	<2
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
Hexachlorobutadiene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	1.2	<1	<1	<0.5	<1	<2	<1	<1
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	1.0	<1	<1	<0.5	<1	<2	<1	<1
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	3.9	<1	<1	<0.5	<1	<2	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	1.0	<1	<1	<0.5	<1	<2	<2	<2
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
Total Aromatic Hydrocarbons															14.9							
Halogenated Non-Aromatic Hydrocarbons																						
Bromodichloromethane	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	6.0	<1	<1	<0.5	<1	<2	<1	<1
Carbon Tetrachloride	0.5	130.1	47.8	40.1	60.8	77.1	52.7	11.9	39.9	45.3	24.0	22.0	27.0	25.0	28.7	31.5	32.2	26.0	34.0	24.2	38.5	28.9
Chloroform	100	26.2	15.1	14.4	15.6	20.9	16.6	6.3	10.5	11.2	10.0	7.4	9.4	8.9	16.0	10.0	9.9	8.6	11.1	9.0	12.9	22.0
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<1	<1
Dibromomethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	4.5	<1	<1	<0.5	<1	<2	<1	<1
1,1-Dichloroethane	5	15.1	7.4	9.0	7.0	9.4	7.0	10.6	<1	6.1	6.4	5.4	5.6	5.0	10.0	4.9	5.0	4.5	5.5	5.4	6.9	<1
1,2-Dichloroethane	0.5	8.1	1.8	<1	1.5	2.3	1.5	<1	6.4	<1	0.72	<0.5	<0.5	<0.5	4.6	<1	<1	0.53	<1	<2	<1	<1
1,1-Dichloroethene	6	134.2	36.3	30.3	40.3	50.3	44.3	3.9	31.8	43.0	20.0	17.0	23.0	22.0	24.6	18.0	17.7	22.0	29.7	23.0	37.4	28.4
cis-1,2-Dichloroethene	6	65.3	56.9	67.3	64.1	58.1	56.0	39.5	83.7	73.8	41.0	33.0	41.0	40.0	44.8	49.6	48.5	43.0	58.5	63.8	72.3	85.1
trans-1,2-Dichloroethene	10	<5	2.8	8.8	3.5	<1	4.6	<1	6.7	<1	2.3	<0.5	3.4	4.0	9.6	2.8	2.6	2.7	5.3	5.8	7.4	7.9
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	3.7	<1	<1	<0.5	<1	<2	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	3.2	<1	<1	<0.5	<1	<2	<1	<1
cis-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1					4.4	<1	<1		<1	<2	<1	<1
trans-1,3-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1					4.0	<1	<1		<1	<2	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<2	<1	<1
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<2	<1	<1
Tetrachloroethene	5	525.3	627.5	287.6	513.9	670.5	432.9	232.0	872.6	759.0	350.0	280.0	350.0	330.0	600.0	388.0	357.0	360.0	408.0	391.0	440.0	379.0
1,1,1-Trichloroethane	200	<5	1.6	1.6	1.6	3.8	1.9	<1	1.5	<1	0.74	0.60	0.80	0.80	4.6	<1	<1	0.65	<1	<2	<1	1.3
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	3.1	<1	<1	<0.5	<1	<2	<1	<1
Trichloroethene	5	237.7	280.0	152.0	223.5	272.7	233.4	97.3	332.0	454.0	170.0	120.0	140.0	160.0	200.0	107.0	98.0	150.0	183.0	168.0	151.0	183.0
Freon-113	1200	3.8	6.8	8.0	5.0	5.1	<1	<1	19.2	<1	1.3	1.7	2.2	1.6	7.4	<5	<5	1.8	<5	2.2	2.8	3.0
Vinyl Chloride	0.5	15.8	11.3	17.4	22.8	5.5	19.8	<1	3.6	2.7	3.2	3.8	5.8	5.4	<1	<1	<1	3.7	7.9	7.2	7.9	11.1
Total Halogenated Hydrocarbons		1161.6	1095.3	636.5	959.6	1175.7	870.7	401.5	1407.9	1395.1	629.66	490.9	608.2	602.7	980.2	611.8	570.9	623.5	743.0	699.6	777.1	749.7
Total Concentration of VOCs		1161.6	1095.3	636.5	959.6	1175.7	870.7	401.5	1407.9	1395.1	629.66	490.9	608.2	602.7	995.1	611.8	570.9	623.5	743.0	699.6	777.1	749.7

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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Nov-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	Jun-99	Mar-00
Aromatic and 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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<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	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	19.7	5.7	19.7	23.7	18.2	7.0	4.8	2.0	5.2	2.4	8.1	3.7
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	38.9	13.7	41.8	35.5	28.7	22.0	17.2	9.8	12.9	7.6	16.0	8.8
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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<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	2.7	<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	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	1.8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	2.9	4.1	3.2	<1	<1	<1	<1	<1	<1	<1
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	<1	1.1	2.4	2.1	2.0	2.0	1.5	<1	1.4	1.5	2.0	1.2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<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	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	38.9	25.4	39.0	47.2	52.3	340.7	20.7	19.9	113.8	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	91.4	130.0	85.9	95.9	76.5	15.6	21.2	14.1	27.6	22.2	43.3	11.6
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	10.7
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	53.9	28.7	49.1	46.5	35.9	17.6	12.0	7.7	12.4	11.8	18.4	9.4
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	1.3	<1	1.7	2.0	2.0	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbon		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	209.7	179.2	203.5	209.8	166.5	64.2	56.7	33.6	59.7	45.5	87.8	45.4
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	209.7	179.2	203.5	209.8	166.5	64.2	56.7	33.6	59.7	45.5	87.8	45.4

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

<1 = Less than Quantitation Limit
= Compound not included in analysis

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-9 (well is on semi-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
Aromatic and 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
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
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
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
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<0.5	<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
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
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
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
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
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-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
1,3,5-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
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<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
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
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
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
1,2-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
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
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
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
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	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
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
1,1,2-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
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Jun-98	Aug-98	Nov-98	Feb-99	Apr-99	Aug-99	Oct-99	Jan-00	May-00
Aromatic and 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	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<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	<2	<2	<2	<2	<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	<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	<2	<2	<2	<2	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<1	<1	<1	<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	<1	<1	<1	<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	<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	<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	<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	<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	<2	<2	<2	<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	<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	<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	<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	<1	<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-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	<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	<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	<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	<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	<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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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*	Aug-98	Oct-98	Jan-99	Apr-99	Aug-99	Nov-99	Jan-00	Apr-00
Aromatic and 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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2
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	<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	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Aromatic Hydrocarbons																									<1	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<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	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	May-98*	Aug-98	Nov-98	Jan-99*	Apr-99	Aug-99	Oct-99	Jan-00	#####
Aromatic and 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	<0.5	<1	<1	<0.5	<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	<0.5	<1	<1	<0.5	<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	<0.5	<1	<1	<0.5	<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	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<0.5	<1	<1	<0.5	<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	<0.5	<2	<2	<0.5	<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	<0.5	<1	<1	<0.5	<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	<0.5	<2	<2	<0.5	<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	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<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	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<0.5	<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	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<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	<1	<2	<2	<1	<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	<0.5	<1	<1	<0.5	<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	<0.5	<1	<1	<0.5	<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	<0.5	<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	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<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	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<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	<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	<0.5	<1	<1	<0.5	<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	<0.5	<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	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<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	<0.5	<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	<0.5		<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<10	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Aug-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	May-00
Aromatic and 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	<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	<1	<1	<1	<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	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<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	<2	<2	<2	<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	<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	<2	<2	<2	<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	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<1	<1	<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	<1	<1	<1	<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	<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	<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	<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	<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	<2	<2	<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	<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	<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	<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	<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	1.2	1.2	1.4	<1	1.2	1.5	1.2	1.1
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	<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	<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	4.5	6.6	4.7	2.9	6.6	7.3	6.0	3.5
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-123A																									<1	<1	<1	1.1	<1	<1	<1	<1	<1	<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	<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	5.7	8.9	6.1	2.9	7.8	8.8	7.2	4.6
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	5.7	8.9	6.1	2.9	7.8	8.8	7.2	4.6

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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*	Aug-98	Oct-98	Jan-99	Apr-99	Sep-99	Oct-99	Jan-00	Feb-00	May-00
Aromatic and 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	<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	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<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	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<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	<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-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	<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	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.5	<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	<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	<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				1.0																															
Total Concentration of VOCs			1.0	2.2																															

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

<xx = Less than Quantitation Limit

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
Bromobenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
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
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
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<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
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<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
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<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
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
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<0.5	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1	<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
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
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
Dibromochloromethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<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
1,1-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
1,2-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
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
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
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
1,3-Dichloropropane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,1-Dichloropropene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
cis-1,3-Dichloropropene		<5	<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	<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
1,1,1,2-Tetrachloroethane		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<0.5	<2	<2
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
1,1,1-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
1,1,2-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
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
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
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
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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
1,2,4-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
1,3,5-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
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
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
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
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
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
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-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
1,2-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
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
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
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
1,3-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-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
cis-1,3-Dichloropropene		<1	<1	<1	<1		<1	<1	<1	<1					<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,3-Dichloropropane		<1	<1	<1	<1		<1	<1	<1	<1					<1	<1	<1	<1	<0.5	<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
1,1,1,2-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
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
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
1,1,2-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
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	37-92-5 (well is on annual sampling)														
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Aug-94	Feb-95*	Sep-95	Mar-96	Aug-96	Feb-97	Aug-97	May-98*	May-99
Aromatic and Non-Halogenated Hydrocarbons																
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<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
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<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
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Freon 113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<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

<1 = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Aug-98	Nov-98	Feb-99	May-99	Aug-99	Dec-99	Feb-00	Jun-00
Aromatic and 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	<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	<1	<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	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<2	<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	<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	<2	<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	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<1	<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	<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	<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	<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	<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	<2	<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	<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	<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	<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	<1	<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	<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	<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	<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	1.8	1.8	2.3	1.6	1.8	2.2	1.6	1.5
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	<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	<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	1.8	1.8	2.3	1.6	1.8	2.2	1.6	1.5
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	1.8	1.8	2.3	1.6	1.8	2.2	1.6	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
(G) = Grab sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58-92-8			46-92-9 (well is on annual sampling)																
		Dec-92	Mar-93	Jun-93	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
Aromatic and Non-Halogenated Hydrocarbons																					
Benzene	1	<5	<1	<1	<5	6.7	1.5	<1	<1	<1	<1	<1	0.85	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether																		5.5	<5	<5	<5
Naphthalene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						6.7	1.5						0.85					5.5			
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																					
Total Concentration of VOCs						6.7	1.5						0.85					5.5			

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	26-92-11 (well is on semi-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	Aug-96	Dec-96*	Mar-97	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00
Aromatic and 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	<1	<0.5	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<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	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
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	<0.5	<1	<1	<1	<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	<0.5	<1	<1	<1	<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	<0.5	<1	<1	<1	<1	<1	<1	<1
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	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<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	<1	<0.5	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<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	<0.5	<1	<1	<1	<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	<0.5	<1	<1	<1	<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	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
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	<1	0.96	<1	<1	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<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	<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	10.1	14.0	9.2	9.9	9.1	10.3	7.0	9.0	8.2
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	<0.5	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<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	<1	<0.5	<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	<0.5	<1	<1	<1	<1	<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	<1	<0.5	<1	<1	<1	<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	10.1	14.96	9.2	9.9	9.1	10.3	7.0	9.0	8.2
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	10.1	14.96	9.2	9.9	9.1	10.3	7.0	9.0	8.2

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	7-92-16 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	Sep-98	Nov-98	Feb-99	Sep-99	Nov-99	Mar-00	May-00
Aromatic and 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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		5.5	7.1	<1	<1	<1	15.2	<1	20000	<1	<1	1.0	<0.5	<3	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		12.0	12.2	6.2	6.5	<1	<1	<1	6900	<1	<1	0.74	0.83	3.0	<0.5	<1	<20	<2	<0.5	<10	<10	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<1	<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	<3	<3	<3	<3	<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	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		13.2	8.7	16.1	<1	9.0	19.9	7.4	18000	<1	12.0	0.73	<0.5	4.3	<0.5	<1	<20	<1	<0.5	66.1	<10	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1
Naphthalene		62.1	25.3	56.6	60.4	22.7	91.2	33.1	46000	1.1	14.0	4.4	2.6	26.0	0.57	<1	<10	<1	2.2	<20	<20	<2	<2	<2	<2	<2	<2	<2	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		48.4	31.1	52.3	64.1	31.8	<1	30.7	25000	1.1	40.0	2.6	1.7	18.0	<0.5	<1	<20	<2	<0.5	133.0	<10	<1	<1	<1	1.2	<1	<1	<1	<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	1.1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<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		3.4						
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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	5.1	9.4	6.9	8.9	16.7	13.7	7.6
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	<2	<2	<2	<2	<2	<2	<2
Dibromomethane		<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	<1	<1	<1	<1	<1
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	<1	<1	<1	<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	<2	<2	<2	<2	<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	<1	<1	<1	<1	<1	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	<1	<1	<1	<1	<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	<1	<1	<1	<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	<1	<1	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	<1	<1	<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	<2	<2	<2	<2	<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	<1	<1	3.5	<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	<1	<1	<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	<1	<1	<1	<1	<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	4.8	9.3	8.5	6.3	8.3	9.7	<1
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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	9.9	18.7	13.4	15.2	25.0	28.0	7.6
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	13.3	18.7	13.4	15.2	25.0	28.0	7.6

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	6-92-17 (well is on semi-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
Aromatic and 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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
1,2,4-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
1,3,5-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
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
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	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<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
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
1,2-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
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
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
trans-1,2-Dichloroethene	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
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
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-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
1,1,2-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
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
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
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
Total Halogenated Hydrocarbons		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
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

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

<1 = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
• = Compound detected in method blank, 1.1µg/L

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	37-92-18 (well is on annual sampling)																		
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Sep-94	Dec-94*	Feb-95*	Jun-95*	Aug-95	Mar-96	Aug-96	Mar-97	Aug-97	May-98*	Aug-99
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Ethylbenzene	700	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<0.5	<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
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<0.5	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<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	<0.5	<1	<2	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<5	<5	<1	17.0	4.7	1.7	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<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
Tetrachloroethene	5	<5	<5	<1	3.4	1.2	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<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-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<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	<0.5	<5	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons					20.4	5.9	1.7													
Total Concentration of VOCs					20.4	5.9	1.7													

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	37-92-18A (well is on annual sampling)																						
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	Dec-94*	Feb-95*	Jun-95*	Aug-95	Nov-95	Mar-96	May-96	Aug-96	Dec-96	Feb-97	May-97	May-98*	Aug-99	(D)*
Aromatic and Non-Halogenated Hydrocarbons																								
Benzene	1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
Ethylbenzene	700	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<0.5
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	<0.5	<1	<0.5
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<0.5
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,2,4-Trichlorobenzene	70	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1	<0.5
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2	<1
Total Aromatic Hydrocarbons																								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
Chloroform	100	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2	<0.5
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
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
Tetrachloroethene	5	<5	<5	<1	<1	<1	22.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,1,1-Trichloroethane	200	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
Trichloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
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	<0.5	<1	<0.5
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5
Total Halogenated Hydrocarbons							22.5																	
Total Concentration of VOCs							22.5																	

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

<2 = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	7-92-19 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)	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	(D)	Sep-99	Nov-99	Mar-00	May-00
Aromatic and 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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
tert-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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
Ethylbenzene	700	<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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<30	<30	<30	<30	<30	<30	<3	<30	<30	<30	<30
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
1,2,4-Trichlorobenzene	70	<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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	8.4	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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	2.8	<10	<1	<1	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
1,1-Dichloroethane	5	13.0	9.9	17.2	11.7	7.1	13.1	<10	7.5	4.4	2.4	<30	6.8	4.8	6.7	<1	5.4	6.0	4.4	14.5	6.5	3.4	2.9	<5	<1	5.2	1.9	<10	5.1	4.9	<10	<10	<10	<10	<10	<10	2.0	<10	<10	<10	<10
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
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	6.8	9.5	6.5	11.5	7.1	5.3	3.7	<5	<1	5.2	2.7	<10	3.7	3.5	<10	<10	<10	<10	<10	<10	1.2	<10	<10	<10	<10
cis-1,2-Dichloroethene	6	102.3	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	195	224.0	175.0	101.0	155.0	181.0	130.0	132	52.9	50.0	115.0	91.1
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	8.2	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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<20	<20	<20	<20	<20	<20	<2	<20	<20	<20	<20
Tetrachloroethene	5	539.9	1217	782.8	743.5	864.9	1123	1000	444.5	1005	405.2	790.0	990.0	670.0	840.0	1080	1000	1300	1030	1570	1510	940.0	1130	848.0	749.0	1230	664.0	713.0	1080	924	946.0	962.0	1250	935.0	976.0	1030	1030	966.0	982.0	768.0	790.0
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	27.6	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	360.0	450.0	316.0	390.0	455	285.0	386.0	452.0	300.0	311.0	384	334	431.0	336.0	358.0	270.0	288.0	285.0	172	235.0	147.0	185.0	138.0
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
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	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10
Total Halogenated Hydrocarbons		1116	2063	1510	1350	1496	1968	1760	838	1591	798	1350	1619	1149	1420	1771	1670	2006	1614	2459	2088	1509	1747	1066	1354	1947	1098	1134	1696	1473	1601	1473	1707	1360	1445	1365	1337	1254	1159	1076	1019
Total Concentration of VOCs		1116	2063	1510	1353	1496	1968	1760	838	1591	801	1350	1619	1149	1420	1771	1670	2006	1614	2459	2088	1509	1747	1066	1354	1947	1098	1134	1696	1473	1601	1473	1707	1360	1445	1365	1337	1254	1159	1076	1019

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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)*		Jun-96	Aug-96	Nov-96	Jul-97(G)	Aug-97	Mar-98	Sep-98	Feb-99	Sep-99	Mar-00
Aromatic and 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	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<3	<3	<3	<3	<3	<3	<3	<3	<3
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	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	5.9	10.0	10.0	5.1	6.3	3.9	4.6	4.1	5.5	5.0
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	16.8	21.7	23.3	12.5	15.0	9.4	10.9	9.9	15.0	10.3
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	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	2.3	2.2	1.9	1.5	1.5	<1	2.1	1.7	2.4	1.6
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	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<5	<2	<1	<1	<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
trans-1,3-Dichloropropene		<5	<2	<1	<1	<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
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	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	15.2	22.1	17.5	12.7	15.6	8.7	12.1	14.1	15.5	15.0
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	<1	<1	<1	<1	<1	<1	<1	2.1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	13.2	21.8	22.2	12.9	14.8	9.5	12.3	11.7	16.9	10.9
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		239.6	205	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	53.4	77.8	74.9	44.7	53.2	31.5	42.0	41.5	55.3	44.9
Total Concentration of VOCs		239.6	226	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	53.4	77.8	74.9	44.7	53.2	31.5	42.0	41.5	55.3	44.9

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
† = Analysis by Chromalab, EPA Method 8240

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	53-92-21 130' Jan-93	130' Sep-94	130' Oct-94*	130' Nov-94*	130' Mar-95*	130' May-95*	130' Aug-95	130' Mar-96(G)	130' Apr-97	130' Jun-98	130' May-99	147' Jan-93	147' May-95*	147' Mar-96(G)	147' Apr-97	147' Jun-98	147' 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	1.0	<0.5	<1	<1	<1	<1
Bromobenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<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	<0.5	<2	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<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	<0.5	<2	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<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	<1	<0.5	<2	<3	<3	<3
Isopropylbenzene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<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	<0.5	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<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	<0.5	<2	<1	<1	<1
Toluene	150	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<0.5	<0.5	<0.5	<0.5	<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	<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	<0.5	<2	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<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				1.0					
Halogenated Hydrocarbons																		
Bromodichloromethane	100	<1	<1	<0.5	<0.5	<0.5	<0.5	<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	<0.5	<1	<1	<1	<1
Chloroform	100	10.8	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	10.2	<0.5	<1	<1	<1	<1
Dibromochloromethane		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<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	<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	<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	<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	<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	<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	<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	<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	<0.5	<1	<1	<1	<1
cis-1,3-Dichloropropene		<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
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		<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
Tetrachloroethene	5	<1	1.5	1.5	0.79	1.3	0.64	<1	<1	1.7	2.5	1.3	<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	<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	<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	<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	<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	<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	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	11.2			1.6	2.7	3.0

Constituent	167' Jan-93	167' May-95*	167' Mar-96(G)	167' Apr-97	167' Jun-98	167' May-99	193' Jan-93	193' May-95*	193' Mar-96(G)	193' Apr-97	193' Jun-98	193' May-99
Aromatic or Non-Halogenated Hydrocarbons												
Benzene	<1	<0.5	<1	<1	<1	<1	1.6	0.78	<1	<1	<1	<1
Bromobenzene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
sec-Butylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
ter-Butylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Ethylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Hexachlorobutadiene	<1	<0.5	<2	<3	<3	<3	<1	<0.5	<2	<3	<3	<3
Isopropylbenzene	<1	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
p-Isopropyltoluene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene	<1	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
n-Propylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Toluene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<0.5	<2	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Xylenes, total	<1	<1	<2	<2	<2	<2	<1	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons							1.6	0.78				
Halogenated Hydrocarbons												
Bromodichloromethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Carbon Tetrachloride	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	<1	<0.5	<1	<1	<1	<1	2.0	<0.5	<1	<1	<1	<1
Dibromochloromethane	<1	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
Dibromomethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	1.6	<1
1,2-Dichloroethane	<1	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
1,1-Dichloroethene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3-Dichloropropane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloropropene	<1	<0.5	<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
trans-1,3-Dichloropropene	<1		<1	<1	<1	<1	<1		<1	<1	<1	<1
Methylene Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<0.5	<1	<2	<2	<2	<1	<0.5	<1	<2	<2	<2
Tetrachloroethene	<1	<0.5	<1	2.0	1.9	1.2	<1	<0.5	<1	1.2	1.7	<1
1,1,1-Trichloroethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	3.9	<1
1,1,2-Trichloroethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethane	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons				2.0	1.9	1.2	2.0			1.2	7.2	
Total Concentration of VOCs				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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Aug-98	Oct-98	Jan-99	Apr-99	Aug-99	Oct-99	Jan-00	Apr-00
Aromatic and 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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethane	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	<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	<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	<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	<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	<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	<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

<1 = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
• = Detections are due to cross contamination during sampling

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Jun-98	Sep-98	Nov-98	Feb-99	May-99#	Feb-00
Aromatic and 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	<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	<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	<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	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<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	<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	<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	<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	4.4	3.7	2.7	3.2	3.1	3.7
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	<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	17.8	11.7	7.7	9.8	9.1	10.1
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	7.0	6.3	4.9	6.3	5.7	6.7
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	<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	<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	39.1	29.9	18.5	23.1	20.0	33.2
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	2.3	1.5	1.0	1.4	<1	2.1
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	<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	32.8	22.8	16.2	20.5	16.2	18.8
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	<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	4.8	2.3	1.2	2.2	1.8	1.9
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	108.2	78.2	52.2	67.6	55.9	76.5
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	108.2	78.2	52.2	67.6	55.9	76.5

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 AEN

* = Analysis by BC Laboratories
(D) = Duplicate sample
= Sample was analyzed after holding time expired

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Feb-98	Sep-98	Feb-99	Sep-99	Mar-00
Aromatic and 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	<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	<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	<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	<1	3.2	<1	3.7	1.0
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	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<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	<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		3.2		3.7	1.0
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	<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	<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	<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	<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	<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	<1	<1	2.4	21.6
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	<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	<1	<1	<1	<1	8.3
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	<1	1.0	2.7	<1	19.2
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	<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	<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	<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	<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
1,1,1,2-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	<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	1.8	<1	19.3
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	<1	<1	8.4
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	<1	<1	<1	<1	4.0
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	1.0	1.1	3.3	1.7	35.7
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	<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	4.8	8.7	6.3	1.3	6.9
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	6.9	10.8	14.1	5.4	123.4
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	6.9	14.0	14.1	9.1	124.4

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

<1 = Less than Quantitation Limit
= Compound not included in analysis

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	37-93-5 (well is on annual sampling)																		
		Oct-93	(D)*	Mar-94	May-94	Aug-94	Dec-94*	Mar-95*	May-95*	Aug-95	Nov-95	Mar-96	May-96	Aug-96	Dec-96	Mar-97	Aug-97	Nov-97	May-98*	Sep-99
Aromatic and 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	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<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	<0.5	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<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	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	1.8	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<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
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<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	<0.5	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon 113	1200	<1		<1	<1	<1	<0.5	<0.5	3.2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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	<0.5	<1
Total Halogenated Hydrocarbons			1.8						3.2											
Total Concentration of VOCs			1.8						3.2											

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Nov-96	Mar-97	Jun-97	Sep-97	Nov-97	Mar-98	Jun-98	Sep-98	Dec-98	Feb-99	May-99	Feb-00
Aromatic and 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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<1	<1	<1	<1	<1	<1	<1	<1	<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	<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	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<2	<2	<5	<2	<2	<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	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	33.6	15.1	16.3	23.4	25.9	10.0	7.3	11.5	13.7	<1	<1	<1
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	56.6	27.0	37.6	54.8	65.9	40.8	44.2	44.3	49.8	29.4	23.8	33.8	34.9	<1	1.3	<1
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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	<1	<1	<1	<1	<1	<1	<1	<1	<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	1.1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	2.7	<1	1.2	<1	3.0	<1	<1	<1	1.3	<1	<1	<1
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	3.8	2.4	2.8	3.7	4.1	2.3	1.8	3.3	3.9	<1	<1	<1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<1	<1	<1	<1	<1	<1	<1	<1	<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	<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	<5	<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	<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	<0.5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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	90.3	33.1	93.6	88.9	86.3	23.6	19.0	49.9	58.9	4.3	4.6	4.6
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	63.4	25.2	38.4	43.6	51.6	23.2	15.7	29.4	33.6	2.6	2.5	2.4
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	1.7	<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	<0.5	<0.5	<0.5	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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	262.5	116.6	196.5	183.9	221.8	68.5	67.6	127.9	146.3	6.9	8.4	9.1
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	199.7	126.0	255.4	291.1	259.5	257.1	356.8	149.0	82.9	104.8	212.3	262.5	116.6	196.5	183.9	221.8	68.5	67.6	127.9	146.3	6.9	8.4	9.1

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

<xx = 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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	5-93-10 (well is on semi-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
Aromatic and 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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
1,2,4-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
1,3,5-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
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
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
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
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
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
1,2-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
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
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
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
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	<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-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
1,1,2-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
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	46-93-12 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	Sep-98	Nov-98	Feb-99	May-99#	Sep-99	Nov-99	Mar-00	May-00
Aromatic and 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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<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	<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	<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	<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	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<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	<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	1.3	1.6	<1	1.1	1.7	2.1	1.7	1.0
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	4.5	5.8	3.5	3.4	6.5	8.5	<1	3.5
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	<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	<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	<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	3.6	3.2	3.7	5.4	4.1	3.7	<1	2.6
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	<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	<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	5.4	6.5	8.2	6.3	6.5	9.8	7.7	4.7
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	<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	<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	7.7	8.6	7.3	8.3	10.0	11.3	7.0	6.0
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	<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	<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	22.5	25.7	22.7	24.5	28.8	35.2	16.4	17.8
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	22.5	25.7	22.7	24.5	28.8	35.2	16.4	17.8

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
• = Compound detected in method blank, 1.1µg/L
= Sample was analyzed after holding time expired

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
sec-Butylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
Ethylbenzene	700	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
p-Isopropyltoluene		<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
n-Propylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
1,2,4-Trichlorobenzene	70	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
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
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
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
1,1-Dichloroethane	5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
1,1-Dichloroethene	6	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
trans-1,2-Dichloroethene	10	<0.5	<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
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
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
1,1,2-Trichloroethane	5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
Freon-113	1200	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<0.5	<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
Total Halogenated Hydrocarbon		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
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

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

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25-93-15 (well is on semi-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
Aromatic and 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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
1,2,4-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
1,3,5-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
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
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
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
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
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
1,2-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
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
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
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
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
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-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
1,1,2-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
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
Bromobenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<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
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<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
Ethylbenzene	700	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<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
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<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
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<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
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<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
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<2	<1	<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
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
Chloroform	100	<1	<0.5	<1	<1	0.60	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<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-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-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
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
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
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
1,3-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-Dichloropropene		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<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
trans-1,3-Dichloropropene		<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
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<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
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
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	May-99	Mar-00
Aromatic and 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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
Ethylbenzene	700	<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	<10	<10	<5	<10	<1	<10	<1
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	<30	<30	<15	<30	<3	<30	<3
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	<20	<20	<10	<20	<2	<20	<2
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	<10	<10	<5	<10	<1	<10	<1
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	<20	<20	<10	<20	<2	<20	<2
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
1,2,4-Trichlorobenzene	70	<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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<4	<200	<2	<2	<2	<2	<20	<10	<20	<20	<10	<20	<2	<20	<2
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	<10	<10	<5	<10	<1	<10	<1
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	34.2	35.8	18.7	22.1	19.5	<10	23.8
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	15.2	15.7	8.5	10.5	8.3	<10	10.0
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	<20	<20	<10	<20	<2	<20	<2
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	2.2	<10	2.3
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	<20	<20	<10	<20	<2	<20	<2
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	19.9	21.9	12.4	16.0	13.7	<10	14.5
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	34.0	37.5	31.7	35.7	30.1	10.1	18.5
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	<10	<10	<5	<10	2.7	<10	3.2
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	<10	<10	<5	<10	<1	<10	<1
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	<10	<10	<5	<10	<1	<10	<1
cis-1,3-Dichloropropene		<1		<1	<1					<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5	<10	<10	<5	<10	<1	<10	<1
trans-1,3-Dichloropropene		<1		<1	<1					<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5	<10	<10	<5	<10	<1	<10	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<100	<1	<1	<1	<1	<10	<5	<10	<10	<5	<10	<1	<10	<1
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	<20	<20	<10	<20	<2	<20	<2
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	382.0	386.0	334.0	348.0	186.0	84.7	368.0
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	<10	<10	<5	<10	<1	<10	1.4
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	<10	<10	<5	<10	<1	<10	<1
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	186.0	167.0	114.0	129.0	111.0	32.0	97.9
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	<10	<10	<5	<10	<1	<10	2.5
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	<10	<10	<5	<10	<1	<10	<1
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	671.3	663.9	519.3	561.3	373.5	126.8	542.1
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	671.3	663.9	519.3	561.3	373.5	126.8	542.1

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	53-93-17 (well is on semi-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
Aromatic and 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
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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
1,2,4-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
1,3,5-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
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
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
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
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
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
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-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
1,2-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
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
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
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
1,3-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-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
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<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
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
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
1,1,2-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
Trichloroethene	5	15.4	15.0	16.6	14.2	36.0	14.0	16.0	33.8	48.3	42.6	28.8	14.7	17.5	33.9	18.5	19.3	17.7	25.3	16.3	24.6	26.7	10.6
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	7-94-3 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	Sep-99	Nov-99	Mar-00	May-00
Aromatic and 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	<1	<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	<1	<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	<1	<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	<1	<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	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<3	<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	<2	<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	<1	<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	<2	<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	<1	<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	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<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	<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	<1	<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	<2	<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	<1	<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	<1	<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	<1	<1	<1	<1
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	<2	<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	<1	<1
1,1-Dichloroethane	5	<3	<5	1.5	0.74	0.84	0.83	<0.5	<1	1.9	1.6	<1	<1	<1	1.2	1.1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<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	<2	<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	<1	<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	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<3	<5	<1	4.7	6.6	4.8	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	<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	<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	<1	<1	<1	<1
cis-1,3-Dichloropropene				<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene				<1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<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	<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	<2	<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	182.0	162.0	328.0	221.0
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	<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	<1	<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	4.9	2.8	5.2	3.3
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	<1	<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	<1	<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	186.9	164.8	333.2	224.3
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	186.9	164.8	333.2	224.3

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

<2 = 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/L

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	37-94-9 (well is on annual sampling)																							
		May-94	(D)*	Jun-94	(D)*	Aug-94	Dec-94*	Mar-95*	May-95*	Aug-95	Nov-95	Mar-96	May-96	Aug-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Jan-99	Apr-99
Aromatic and Non-Halogenated Hydrocarbons																									
Benzene	1	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1.0	<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	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<0.5	<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-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
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
Tetrachloroethene	5	<1	<0.5	<1	<0.5	<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-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon 113	1200	<1	<0.5	<1	<0.5	<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	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
ter-Butylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
p-Isopropyltoluene		<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
n-Propylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
1,2,4-Trichlorobenzene	70	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<1	<0.5	<0.5	<1	<1	<2	<2	<2	<1	<0.5	<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
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
Carbon Tetrachloride	0.5	<1	0.56	0.66	<1	<1	<1	<1	<1	<1	<0.5	<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
1,1-Dichloroethane	5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
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
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
Methylene Chloride	5	<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-Trichloroethane	200	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<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
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
Freon-113	1200	<1	<0.5	<0.5	<5	<5	<1	<1	<1	<1	<0.5	<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
Total Halogenated Hydrocarbons		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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25-94-12 (well is on semi-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
Aromatic and 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
n-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<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
ter-Butylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<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
p-Isopropyltoluene		<1	<0.5	<0.5	<0.5	<0.5	<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
n-Propylbenzene		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<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
1,2,4-Trichlorobenzene	70	<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		<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<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
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<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
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
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
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
1,2-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
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
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
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
Methylene Chloride	5	<1	<1	1.0	<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-Trichloroethane	200	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Sep-98	Dec-98	Feb-99	May-99	Mar-00
Aromatic and 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	<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	<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	<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	<1	<1	<1	<1	<1
Ethylbenzene	700	<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	<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	<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	<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	<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	<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	<1	<1	<1	1.0
1,2,4-Trichlorobenzene	70	<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	<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	<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	<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	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																										1.0
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	<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	<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	1.8	2.4	1.9	1.5	<1
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	<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	<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	3.5	3.8	2.5	2.4	4.6
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	1.2	1.2	1.1	1.2	1.4
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	<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	<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	112	103	92	84	90.7
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	<1	<1	<1
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	<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	21.9	25.5	22.2	17.3	25.9
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	<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	<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	140.4	135.9	119.7	106.4	122.6
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	140.4	135.9	119.7	106.4	123.6

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
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
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
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
Ethylbenzene	700	<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
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
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
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
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
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
1,2,4-Trichlorobenzene	70	<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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Oct-99	Jan-00	May-00
Aromatic and 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	<1	<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	<1	<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	<1	<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	<1	<1	<1
Ethylbenzene	700	<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	<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	<2	<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	<1	<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	<2	<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	<1	<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	<1	<1
1,2,4-Trichlorobenzene	70	<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
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	<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	<1	<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	<2	<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	<1	<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	<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	<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	<2	<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	<1	<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	<1	<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	<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	<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
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	<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	<1	<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	<1	<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	<1	<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	<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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<2	<1	<0.5		<1	<1	<1	<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
Naphthalene		<1	<2	<1	<0.5		<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<1	<2	<0.5		<2	<2	<2	<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
1,2,4-Trichlorobenzene	70	<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		<2	<1	<2	<0.5		<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
Xylenes, total	1750	<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		<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	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
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
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
1,2-Dichloroethane	0.5	<1	<2	<1	<0.5		<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
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
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
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
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	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
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
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
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
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
Total Halogenated Hydrocarbons		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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons																		
Benzene	1	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	700	<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<0.5	<1	<1	<1	<1	<1	<5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<0.5	<1	<1	<1	<1	<1		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	70	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<1	<2	<2	<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
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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
1,1-Dichloroethane	5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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
1,1-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<5	<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-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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
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
Freon-113	1200	<0.5	<5	<5	<1	<1	<1		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<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
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

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

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

† = Analysis by California Laboratory Services
(D) = Duplicate sample
(S) = Split sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	700	<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Naphthalene		<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<2	<2	<2	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<0.5	<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
Tetrachloroethene	5	<0.5	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25-95-5 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
Aromatic and 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	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<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		<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<2	<2	<2	<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	70	<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	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
Xylenes, total	1750	<1	<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		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	1.8	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
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
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	<1	0.77	<1	<1	<1	<2	<2	<2	<2	<2	1.2	<2	<2	<2	<2	<2	<2	<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
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	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
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	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
Freon-113	1200	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<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 Hydrocarbon		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
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

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58-95-11 (well is on semi-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
Aromatic and 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	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<2	<2	<2	<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	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<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	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	4.0	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<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
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
trans-1,2-Dichloroethene	10	4.3	<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
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-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	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
Freon-113	1200	<5	<0.5	<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	<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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Bromobenzene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
n-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
sec-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
ter-Butylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Ethylbenzene	700	<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Hexachlorobutadiene		<1	<1	<5	<150	<0.5	<3	<300	<300	<300	<200	<300	<300	<300	<300	<300	<300	<300	<30
Isopropylbenzene		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20
p-Isopropyltoluene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Naphthalene		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20
n-Propylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Toluene	150	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
1,2,4-Trichlorobenzene	70	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
1,2,4-Trimethylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
1,3,5-Trimethylbenzene		<1	<2	<10	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Xylenes, total	1750	<1	<2	<10	<100	<1	<2	<200	<200	<200	<300	<200	<200	<200	<200	<200	<200	<200	<20
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
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
Chloroform	100	35.1	46.6	<5	<50	4.2	6.8	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Dibromochloromethane		<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20
Dibromomethane		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
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
1,2-Dichloroethane	0.5	<1	<1	<5	<100	<0.5	<2	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<20
1,1-Dichloroethene	6	78.3	103.0	8.2	66.0	8.6	9.3	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
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
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
1,3-Dichloropropane		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
1,1-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
cis-1,3-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<10
trans-1,3-Dichloropropene		<1	<1	<5	<50	<0.5	<1	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<10
Methylene Chloride	5	<1	<1	<5	<50	<1	<1	<100	<100	<100	<300	<100	<100	<100	<100	<100	<100	<100	<10
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
Tetrachloroethene	5	14,820	8880	1050	18,390	2000	1920	13,300	8260	6170	5400	4010	6630	10,200	2200	5300	1730	1390	1360
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
1,1,2-Trichloroethane	5	<1	<1	<5	<50	<0.5	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
Trichloroethene	5	8650	7710	435.0	11,030	1100	1100	6810	5500	5650	5200	2550	3160	5310	1180	2550	795.0	559.0	697.0
Freon-113	1200	2.1	2.6	<5	<50	<30	<1	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<10
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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<10	<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
n-Butylbenzene		<1	<2	<10	<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
ter-Butylbenzene		<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<2	<10	<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
Isopropylbenzene		<1	<1	<20	<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
Naphthalene		<1	<1	<20	<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
Toluene	150	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<10	<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
1,3,5-Trimethylbenzene		<1	<2	<10	<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
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane	100	<1	<1	<10	<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
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
Dibromochloromethane		<1	<1	<10	<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-Dichloroethane	5	<1	<1	<10	<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
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
cis-1,2-Dichloroethene	6	<1	<1	<10	<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
1,3-Dichloropropane		<1	<1	<10	<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
cis-1,3-Dichloropropene		<1	<1	<10	<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
Methylene Chloride	5	<1	<1	<10	<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
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
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
1,1,2-Trichloroethane	5	<1	<1	<10	<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
Freon-113	1200	1.2	<1	<10	<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
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
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

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

< = Less than Quantitation Limit

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	6-95-14 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	Dec-99	Feb-00	May-00
Aromatic and 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
Bromobenzene		<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	<2	<0.5	<2	2.6	<2	<1	<1	<1	<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	<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	<1	<1	<1
Ethylbenzene	700	<1	<1	<2	<0.5	<2	<2	<2	<1	<1	<1	<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	<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	<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	<1	<1	<1
Naphthalene		<1	7.0	<1	5.2	<1	<1	<1	<2	<2	<2	<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	<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
1,2,4-Trichlorobenzene	70	<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		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	<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	<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
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	<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	<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	20.3	12.2	13.9
Dibromochloromethane		<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<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	<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	<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	<2	<2	<2
1,1-Dichloroethene	6	1.2	1.1	<1	<0.5	<1	1.0	3.8	2.1	<1	<1	<1	<1	<1	1.8	<1	<1	1.2	1.1	1.7	<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	<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
1,3-Dichloropropane		<1	<1	<1	<0.5	<1	<1	<1	<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	<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
trans-1,3-Dichloropropene		<1	<1	<1		<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
1,1,1,2-Tetrachloroethane		<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<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	2.9	5.8	5.6
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
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	17.8	10.7	9.7
Freon-113	1200	<5	<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	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	<1	<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	42.7	28.7	29.2
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	42.7	28.7	29.2

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
(S) = Split sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<2	<2	<2	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<1	<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
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<2	<2	<2	<0.5	<2	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
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
Xylenes, total	1750	<1	<1	<2	<2	<2	<1	<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	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
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
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
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
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
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
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	0.55	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
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
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
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
Freon-113	1200	<5	<0.5	<1	<1	<1	<0.5	<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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<1	<1	<0.5	<2	<2	<2	<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
ter-Butylbenzene		<1	<1	<0.5	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<2	<2	<2	<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
p-Isopropyltoluene		<1	<1	<0.5	<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
n-Propylbenzene		<1	<1	<0.5	<2	<2	<2	<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
1,2,4-Trichlorobenzene	70	<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	<1	<0.5	<2	<2	<2	<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
Xylenes, total	1750	<1	<1	<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	<1	<0.5	<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
1,1-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
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
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
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
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
Methylene Chloride	5	<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
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
1,1,2-Trichloroethane	5	<1	<1	<0.5	<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
Freon-113	1200	<5	<1	<0.5	<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
Total Halogenated Hydrocarbon		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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58-95-19 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	May-00
Aromatic and 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	<1
n-Butylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<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	<1
ter-Butylbenzene		<2	<2	<2	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<2	<2	<2	<1	<0.5	<0.5	<1	<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	<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	<1
Naphthalene		<1	<1	<1	<2	<0.5	<0.5	<2	<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	<1
Toluene	150	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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		<2	<2	<2	<1	<0.5	<0.5	<1	<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	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<1	<2	<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	<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
1,1-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
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	<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	<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	47.9
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	<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	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	7.9
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
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<0.5	<1	<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	44.5
Freon-113	1200	<1	<1	<1	<1	<0.5	<0.5	<1	<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	<1
Total Halogenated Hydrocarbon		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	100.3
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	100.3

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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58-95-20 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	May-99	Sep-99	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons																							
Benzene	1	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<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	<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	<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	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<2	<2	<2	<5	<2	<1	<0.5	<1	<1	<1	<1	<1	<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	<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	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<1		<1	<2	<0.5	<2	<2	<2	<2	<2	<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	<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	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<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	<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	<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	<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	<1	<1	<1	1.2	<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	2.9	2.9	1.4	3.8	3.1
1,1-Dichloroethane	5	<1	<1	<1	<1	<5	<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	<1	<5	<1	<2	<0.5	<2	<2	<2	<2	<2	<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	<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	5.1	2.1	1.0	5.3	1.4
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<5	<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	<5	<1	<1	<1	<1	<1	<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	11.8	4.8	3.9	29.4	7.0
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	<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	<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	8.4	5.2	3.1	15.8	5.5
Freon-113	1200	<5	<1	<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	<1	<1	<1	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<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	28.2	15.0	9.4	55.5	17.0
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	28.2	15.0	9.4	55.5	17.0

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
† = Analysis by California Laboratory Services

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	78-95-21																																							
		Aug-95(D)	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	Nov-99	Mar-00	May-00
Aromatic and 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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
tert-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	<10	<1	<1
1,2-Dichlorobenzene		<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	<0.5	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
1,4-Dichlorobenzene		<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	0.59	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
Ethylbenzene	700	<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	0.83	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
Hexachlorobutadiene		<100	<1000	<3000	<2	<3000	<200	<2	<300	<30	<900	<300	<100	<100	<300	<100	<100	<15	<30	<100	<100	<30	<30	<100	<100	<50	<10	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<20	<2	<2
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	<10	<1	<1
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	<20	<2	<2
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	<10	<1	<1
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	<0.5	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
1,2,4-Trichlorobenzene	70	<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	0.76	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
Xylenes, total	###	<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	<20	<2	<2
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	<10	<1	<1
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	0.84	<30	<10	<10	<0.5	<2	<10	<20	<2	<2
Carbon Tetrachloride	0.5	4000	5890	8100	4020	<9000	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	<10	<1	<1
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	<10	<1	<1
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	<20	<2	<2
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	8.4	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<0.5	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<10	<1	<1
cis-1,2-Dichloroethene	6	<100	<1000	<3000	131.0	<3000	114.0	148.0	<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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
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	<10	<1	<1
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	<0.5	<10	<0.5	<10	<0.5	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	<20	<2	<2
1,1,2,2-Tetrachloroethane		<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	<10	<1	<1
Tetrachloroethene	5	85,400	178,000	160,000	127,000	140,000	139,000	134,000	112,000	78,930	95,000	71,100	69,000	73,000	5610	5400	5000	5030	5180	5400	5000	16,600	17,000	43,000	8170	1845	2590	3300	912	1000	11,200	13,000	22,000	758	720	750	527	1,280	1,450	422	43.1
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	<10	1.0	<1
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	<10	<1	<1
Trichloroethene	5	58,600	93,400	100,000	71,400	71,000	50,700	46,050	22,300	16,420	19,000	15,000	18,000	18,000	169.0	180.0	180.0	54.8	132.0	170.0	150.0	303.0	520.0	8100	<100	<50	55.0	53.0	<10	10.0	548.0	580.0	2000	52.2	12.3	18.0	29.2	44.9	108.0	14.5	1.8
Freon-113	###	<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	<30	<5	<5	<0.5	<1	<5	<10	<1	<1
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	35.0	<5	<5	<0.5	<1	<5	<10	<1	<1
Total Halogenated Hydrocarbons		148,863	277,290	298,100	203,267	211,000	195,590	182,494	135,836	97,054	115,800	87,813	88,770	92,780	5,779	5,580	5,180	5,094	5,312	5,570	5,150	17,072	17,620	52,080	8,170	1,845	2,645	3,366	912	1,013	11,776	13,898	24,451	810.2	732.3	789.9	556.2	1,335	1,558	437.5	44.9
Total Concentration of VOCs		148,863	277,290	298,100	203,300	211,000	195,590	182,528	135,836	97,054	115,800	87,813	88,770	92,780	5,779	5,580	5,180	5,094	5,312	5,570	5,150	17,072	17,620	52,080	8,170	1,845	2,645	3,366	912	1,013	11,776	13,898	24,451	810.2	732.3	789.9	556.2	1,335	1,558	437.5	44.9

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

(S) = Split sample
(G) = Grab sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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	Mar-00	May-00
Aromatic and 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	<10	<100
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	<10	<100
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	<10	<100
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	<10	<100
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	<10	<100
1,2-Dichlorobenzene		<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	<10	<100
1,4-Dichlorobenzene		<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	<10	<100
Ethylbenzene	700	<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	<10	<100
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	<30	<300
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	<20	<200
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	<10	<100
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	<20	<200
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	<10	<100
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	<10	<100
1,2,4-Trichlorobenzene	70	<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	<10	<100
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	<10	<100
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	<10	<100
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	<20	<200
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	<10	<100
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	<20	<200
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	<10	<100
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	<10	<100
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	<20	<200
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	<10	<100
1,1-Dichloroethane	5	<100	11.9	1.2	<100	9.8	<700	<10	<3000	<500	<500	<100	<100	<100	<100	<100	4.5	<50	<100	<100	<10	<100	3.8	<100	<500	<200	<10	<100
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	<20	<200
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	<10	<100
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	<10	149.0
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	<10	<100
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	<10	<100
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	<10	<100
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	<10	<100
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	<10	<100
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	<10	<100
1,1,1,2-Tetrachloroethane		<100	84.6	<1	<100	56.8	<700	<20	<3000	<1000	<500	<200	<100	<200	<100	<200	31.0	<100	<200	<200	<20	<200	18.0	<200	<1000	<400	<20	<200
Tetrachloroethene	5	21,800	46,400	37,000	21,900	21,240	32,000	28,200	35,000	18,800	18,000	17,800	18,000	17,600	27,000	14,200	20,000	18,200	14,800	12,800	12,300	9230	8900	8,520	7400	7540	510.0	2,410
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	<10	<100
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	<10	<100
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	57.3	408.0
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	<10	<100
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	<10	<100
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	22,381	30,990	16,342	23,232	22,392	17,373	14,859	14,089	10,661	10,841	9,704	9,150	8,830	567.3	2,867
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	22,381	30,990	16,342	23,235	22,392	17,373	14,859	14,089	10,661	10,841	9,704	9,150	8,830	567.3	2,867

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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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)*	Mar-00	Mar-00	Mar-00	(D)*	May-00	(D)*
Aromatic and Non-Halogenated Hydrocarbons																												
Benzene	1	<1	<100	<5	1.6	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<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	<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	<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	<500	<500	<500	<50	<200	<0.5
tert-Butylbenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<500	<500	<500	<50	<200	<0.5
1,2-Dichlorobenzene		<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<500	<500	<500	<50	<200	<0.5
1,4-Dichlorobenzene		<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<500	<500	<500	<50	<200	<0.5
Ethylbenzene	700	<2	<200	<5	<2	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<500	<500	<500	<50	<200	1.3
Hexachlorobutadiene		<2	<200	<5	<2	<300	<700	<30	<900	<1500	<500	<300	<300	<100	<300	<300	<1500	<1500	<30	<1500	<1500	<50	<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	<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	<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	<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	<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	<500	<500	<500	<50	<200	<0.5
1,2,4-Trichlorobenzene	70	<1	<100	<5	<1	<100	<700	<10	<900	<500	<500	<100	<100	<100	<100	<100	<500	<500	<10	<500	<500	<50	<500	<500	<500	<50	<200	5.3
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	<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	<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	<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	<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	<1000	<1000	<1000	<50	<400	4.5
Carbon Tetrachloride	0.5	900.0	2200	1700	1230	1120	1200	890.0	2100	1000	1300	1140	1590	1700	1420	2400	2140	1140	1250	1250	1220	1800	899.0	791.0	787.0	520.0	727.0	640.0
Chloroform	100	68.2	<100	120.0	124.0	118.0	<700	166.0	<900	<500	<500	<100	<100	100.0	<100	151.0	<500	<500	100.0	<500	<500	100.0	<500	<500	<500	59.0	<200	63.0
Dibromochloromethane		<1	<100	<5	<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<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	<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	<500	<500	<500	<50	<200	8.2
1,2-Dichloroethane	0.5	8.8	<100	8.2	<1	<200	<700	<20	<900	<1000	<500	<200	<200	<100	<200	<200	<1000	<1000	<20	<1000	<1000	<50	<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	106.0	119.0	180.0	124.0	220.0	<500	<500	141.0	<500	<500	200.0	<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	<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	<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	<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	<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	<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	<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	<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	<1000	<1000	<1000	<50	<400	28.0
Tetrachloroethene	5	24,600	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	54,800	38,300	34,400	27,500	35,700	35,200	38,000	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	<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	<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	28,200	35,000	32,000	38,700	43,600	35,500	30,100	38,800	35,600	45,000	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	<500	<500	<500	<50	<200	1.4
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	<500	<500	<500	<50	<200	<0.5
Total Halogenated Hydrocarbons		53,800	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	37,899	38,991	36,912	30,099	48,017	46,603
Total Concentration of VOCs		53,812	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	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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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)*
Aromatic and 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
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
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
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
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
1,2-Dichlorobenzene		<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
1,4-Dichlorobenzene		<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
Ethylbenzene	700	<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
Hexachlorobutadiene		<20	<2	<100	<300	<20	<2	<150	<600	<50	<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
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
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
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
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
Toluene	150	<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
1,2,4-Trichlorobenzene	70	<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
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
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
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
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
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
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	808.0	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
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
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
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
1,1-Dichloroethane	5	18.0	1.8	<50	<300	39.2	32.9	<50	<600	22.8	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
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
1,1-Dichloroethene	6	42.6	7.3	160.0	<300	106.0	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
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	830.0	398.0	530.0	414.0	560.0	480.0	387.0	<500	460.0	460.0	442.0	380.0	508.0	320.0
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
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
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
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
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
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
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
Tetrachloroethene	5	11,000	1870	25,500	18,000	21,600	21,800	27,900	29,000	33,200	35,000	23,440	20,000	23,700	24,000	26,000	32,000	27,200	18,500	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
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
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
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
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
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
Total Halogenated Hydrocarbons		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	35,688	34,884	36,114	45,610	37,892	28,667	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
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	35,688	34,884	36,114	45,610	37,892	28,667	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

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

<xx.xx> = Less than Quantitation Limit
* = Analysis by BC Laboratories

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	78-95-25 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	Mar-00	May-00
Aromatic and 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	<1	<10
Bromobenzene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<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	<1	<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	<1	<10
tert-Butylbenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<10
1,2-Dichlorobenzene		<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<10
1,4-Dichlorobenzene		<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<10
Ethylbenzene	700	<20	<80	<2	<2	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<10
Hexachlorobutadiene		<20	<80	<2	<2	<2	<30	<15	<15	<30	<300	<3	<0.5	<15	<3	<30	<3	<15	<15	<3	<15	<30	<3	<30
Isopropylbenzene		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20	<2	<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	<1	<10
Naphthalene		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20	<2	<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	<1	<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	<10
1,2,4-Trichlorobenzene	70	<10	<80	<1	<1	<2	<10	<5	<5	<10	<100	<1	<0.5	<5	<1	<10	<1	<5	<5	<1	<5	<10	<1	<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	<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	<1	<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	<2	<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	<1	<10
Bromoform		<20	<80	<2	<2	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20	<2	<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	<1	<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	<1	<10
Dibromochloromethane		<10	<80	<1	<1	<2	<20	<10	<10	<20	<200	<2	<0.5	<10	<2	<20	<2	<10	<10	<2	<10	<20	<2	<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	<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	<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	<2	<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	<1	<10
cis-1,2-Dichloroethene	6	27.1	20.0	61.2	42.8	32.0	27.8	23.7	5.7	10.8	<100	4.2	5.0	7.6	2.3	<10	2.3	<5	<5	6.6	5.3	<10	<1	12.2
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	<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	<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	<1	<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	<1	<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	<1	<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	<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	<2	<20
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	4620**	588.0	707.0	176	160.0
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	<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	<1	<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	9.3	<10
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	<1	<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	<1	<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	185.3	172.2
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	185.3	172.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
**=Subsequent sample did not confirm result

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25-95-26 (well is on semi-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
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
sec-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
Ethylbenzene	700	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
Methyl tert-Butyl Ether									<5	<5	<5		<5	<5	1.3	<5	<5
Naphthalene		<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<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
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
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
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
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
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
trans-1,2-Dichloroethene	10	<1	<0.5	<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
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-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
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
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
ter-Butylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
p-Isopropyltoluene		<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
n-Propylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
1,2,4-Trichlorobenzene	70	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<2	<2	<2	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<1	<2	<2	<2	<2	<2	<1	<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
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
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
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
1,2-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
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
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
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
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	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<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
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	1.5	0.84	<1	<1	<1	<1	<1	<0.5	<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
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
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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	53-96-1 (MW91-7) (well is on semi-annual sampling)										
		Jul-96	(D)*	Aug-96	Nov-96	Mar-97	Jun-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons												
Benzene	1	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
Bromobenzene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene		<2	<0.5	<2	<3	<30	<3	<3	<3	<3	<3	<3
Isopropylbenzene		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<2	<0.5	<2	<1	<10	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<20	<2	<20	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane	100	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
Bromoform		<2	<0.5	<2	<2	<20	<2	<2	<2	<2	<2	<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
Chloroform	100	12.0	12.0	12.0	14.0	11.4	12.5	14.8	8.5	9.4	6.8	11.5
1,1-Dichloroethane	5	3.5	3.5	2.8	<1	<10	2.4	2.1	1.5	1.4	1.5	1.7
1,2-Dichloroethane	0.5	1.4	1.5	<1	<2	<20	<2	<2	<2	<2	<2	<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
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
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
1,3-Dichloropropane		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<0.5	<1	<2	<20	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	280.0	260.0	338.0	330.0	376.0	184.0	246.0	157.0	176.0	104.0	170.0
1,1,1-Trichloroethane	200	1.2	0.96	1.4	<1	<10	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<10	<1	<1	<1	<1	<1	<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
Freon-113	1200	<1	<0.5	1.9	1.6	<10	1.2	<1	<1	<1	<1	<1
Freon-123A								<1	<1	<1	1.1	<1
Vinyl Chloride	0.5	1.9	2.2	1.5	<1	<10	<1	<1	<1	<1	<1	<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
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

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	4-96-2																	
		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 and 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	700	<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	70	<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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and 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
n-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
ter-Butylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
n-Propylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<2	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
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
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<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
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
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
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	<0.5	<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
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<0.5	<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
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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

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
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<1	<1	<0.5	<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
sec-Butylbenzene		<1	<1	<1	<0.5	<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
Ethylbenzene	700	<1	<1	<1	<0.5	<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
p-Isopropyltoluene		<1	<1	<1	<0.5	<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
n-Propylbenzene		<1	<1	<1	<0.5	<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
1,2,4-Trichlorobenzene	70	<1	<1	<1	<0.5	<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
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<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
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
Chloroform	100	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<1
1,1-Dichloroethane	5	<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	<0.5	<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
cis-1,2-Dichloroethene	6	<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	<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
Tetrachloroethene	5	<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	<0.5	<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
Trichloroethene	5	<1	<1	<1	<0.5	<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
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<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

<xxx> = Less than Quantitation Limit

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	55-96-11 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)*	May-00	(D)*
Aromatic and 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	<100	<0.5
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	<100	<0.5
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	<100	<0.5
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	<100	<0.5
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	<100	<0.5
1,2-Dichlorobenzene		<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	<100	<0.5
1,4-Dichlorobenzene		<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	<100	<0.5
Ethylbenzene	700	<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	<100	<0.5
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	<300	<0.5
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	<200	<0.5
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	<100	<0.5
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	<200	<0.5
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	<100	<0.5
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	<100	0.74
1,2,4-Trichlorobenzene	70	<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	<100	<0.5
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	<100	<0.5
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	<100	<0.5
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	<200	<1
Total Aromatic Hydrocarbons																	3.5						3.89		2.32				0.74
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	<100	<0.5
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	<200	2.0
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	<100	70.0
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	<100	41.0
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	<200	<0.5
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	<100	<0.5
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	<100	10.0
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	<200	4.0
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	<100	55.0
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	808.0	1030	1200	588.0	690.0	<500	580.0	298.0	190.0	287.0	210.0
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	<100	5.3
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	<100	<0.5
1,1-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	<100	<0.5
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	<100	<0.5
trans-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	<100	<0.5
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	<100	3.8
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	<200	11.0
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	7,070	2,200
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	<100	<0.5
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	<100	4.6
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	9,070	3,300
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	<100	<0.5
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	<100	1.4
Total Halogenated Hydrocarbons		97,075	42,899	38,720	42,699	49,130	51,884	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	16,427	5,918
Total Concentration of VOCs		97,075	42,899	38,720	42,699	49,130	51,884	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	16,427	5,918

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58-96-12 (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
Aromatic and 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	700	<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
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	70	<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	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	5.8	<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	0.87	11.3	1.4	1.9	1.8	2.7	2.5	<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			0.87	17.1	1.4	1.9	1.8	2.7	2.5			1.1	
Total Concentration of VOCs			0.87	17.1	1.4	1.9	1.8	2.7	2.5			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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25A-98-1 Jul-98	(D)*	Sep-98	Dec-98	Feb-99	May-99#	Sep-99	Nov-99	Mar-00	May-00
Aromatic and Non-Halogenated Hydrocarbons											
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<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
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<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
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
trans-1,2-Dichloroethene	10	<1	<0.5	<1	1.0	1.4	<1	2.5	3.2	3.5	3.1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	1.7	6.0
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<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
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		105.9	114.1	77.8	157.9	189.4	128.3	310.5	349.2	339.6	400.2
Total Concentration of VOCs		105.9	114.1	77.8	157.9	189.4	128.3	310.5	349.2	339.6	400.2

Constituent	25A-98-3 Jun-98	(D)*	Sep-98	Dec-98	Mar-99	(D)*	Jun-99	Sep-99	Nov-99	Mar-00	May-00
Aromatic and Non-Halogenated Hydrocarbons											
Benzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
n-Butylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
sec-Butylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
ter-Butylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Ethylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Isopropylbenzene	<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2
p-Isopropyltoluene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Naphthalene	<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2
n-Propylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Toluene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Xylenes, total	<2	<1	<20	<2	<2	<1	<2	<20	<2	<2	<2
Total Aromatic Hydrocarbons											
Halogenated Non-Aromatic Hydrocarbons											
Bromodichloromethane	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Carbon Tetrachloride	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Chloroform	<1	0.51	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,1-Dichloroethane	1.2	1.8	<10	1.4	<1	<0.5	<1	<10	<1	<1	<1
1,2-Dichloroethane	<2	<0.5	<20	<2	<2	<0.5	<2	<20	<2	<2	<2
1,1-Dichloroethene	61.9	77.0	50.1	66.6	4.1	5.7	12.1	31.8	43.2	4.3	8.9
cis-1,2-Dichloroethene	4.4	6.1	<10	4.8	<1	0.57	1.3	<10	3.7	<1	1.3
trans-1,2-Dichloroethene	1.2	1.3	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Methylene Chloride	<1	<1	<10	<1	<1	<1	<1	<10	<1	<1	<1
Tetrachloroethene	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,1,1-Trichloroethane	<1	0.63	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
1,1,2-Trichloroethane	<1	0.64	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Trichloroethene	390.0	400.0	324.0	352.0	34.5	37.0	128.0	279.0	267.0	111.0	167.0
Freon-113	<1	0.51	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Vinyl Chloride	<1	<0.5	<10	<1	<1	<0.5	<1	<10	<1	<1	<1
Total Halogenated Hydrocarbons	458.7	488.49	374.1	424.8	38.6	43.27	141.4	310.8	313.9	115.3	177.2
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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25A-98-6			25A-98-7			52A-98-8A		52A-98-8B						
		Nov-99	Feb-00 (G)	May-00 (G)	Dec-99	(D)*	May-00	Apr-99 (G)	May-00 (G)	Jul-99	(D)*	Sep-99	Nov-99	Feb-00	Mar-00	May-00
Aromatic and Non-Halogenated Hydrocarbons																
Benzene	1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<1	<20	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<1	<20	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Toluene	150	1.4	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<1	<2	<2	<2	<2	<3	<20	<2	<2	<2	<2
Total Aromatic Hydrocarbons		1.4														
Halogenated Non-Aromatic Hydrocarbons																
Bromodichloromethane		<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	24.6	24.0	22.9	24.1	22.3	20.1	19.1
Chloroform	100	1.1	<1	<1	<1	<0.5	<1	<1	<1	63.1	50.0	47.5	60.0	38.6	30.1	84.7
1,1-Dichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	1.0	1.2	<10	1.0	<1	<1	1.3
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<1	<20	<2	<2	<2	<2
1,1-Dichloroethene	6	1.0	<1	<1	6.0	3.9	<1	<1	<1	<1	<1	<10	<1	<1	1.1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	0.55	<1	1.6	2.9	16.4	22.0	16.7	28.0	17.5	12.3	22.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	1.0	<10	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<10	<1	<1	<1	<1
Tetrachloroethene	5	7.5	1.9	1.8	<1	<0.5	1.3	<1	<1	35.5	41.0	25.5	36.1	37.8	26.2	35.7
1,1,1-Trichloroethane	200	<1	<1	<1	<1	0.58	<1	<1	<1	<1	<1	<10	<1	<1	2.2	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Trichloroethene	5	5.5	3.2	4.2	293.0	210.0	106.0	3.1	9.3	81.5	72.0	88.4	94.9	57.9	45.4	71.6
Freon-113	1200	1.1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1
Total Halogenated Hydrocarbons		16.2	5.1	6.0	299.0	215.03	107.3	4.7	12.2	222.1	211.2	201.0	244.1	174.1	137.4	234.4
Total Concentration of VOCs		17.6	5.1	6.0	299.0	215.03	107.3	4.7	12.2	222.1	211.2	201.0	244.1	174.1	137.4	234.4

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

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

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

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	52-98-9						25-98-10					
		Jul-99	(D)*	Sep-99	Nov-99	Mar-00	May-00	Nov-98 (G)	Oct-99	(D)*	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<0.5	<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<2	<0.5	<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<1	<20	<2	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	32.8	30.0	22.4	20.9	19.4	15.4	1.7	2.4	2.5	1.5	2.2	2.6
Chloroform	100	101.0	78.0	75.6	84.6	40.6	53.8	2.9	3.4	3.6	4.3	<1	3.3
1,1-Dichloroethane	5	1.7	1.5	<10	1.5	1.6	1.1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<20	<2	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	1.2	1.2	<10	1.2	<1	<1	<1	1.6	1.9	1.3	1.0	1.6
cis-1,2-Dichloroethene	6	4.8	5.7	<10	5.9	5.6	5.0	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	68.4	83.0	64.7	84.0	37.5	40.8	1.3	1.7	2.4	1.6	2.3	2.2
1,1,1-Trichloroethane	200	<1	0.54	<10	<1	3.6	1.4	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	45.6	38.0	42.8	37.1	25.3	26.0	7.7	14.8	15.0	11.0	9.4	12.4
Freon-113	1200	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<10	<1	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		255.5	237.94	205.5	235.2	133.6	143.5	13.6	23.9	25.40	19.7	14.9	22.1
Total Concentration of VOCs		255.5	237.94	205.5	235.2	133.6	143.5	13.6	23.9	25.40	19.7	14.9	22.1

MCL = Maximum contaminant level for drinking water
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(D) = Duplicate sample
(G) = Grab sample

Table B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	25A-99-2 May-99 (G)	Jul-99	(D)*	Dec-99	Mar-00	May-00	25A-99-5 Sep-99	(D)*	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<2	<2	<0.5	<2	<2	<2	<2	<0.5	<5	<5	<5
n-Propylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<2	<2	<2
Toluene	150	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<1	4.6	4.3	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	9.7	13.9	12.0	23.6	15.3	17.6	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	0.52	<1	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<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
Tetrachloroethene	5	<1	<1	<0.5	1.1	<1	2.8	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	6.3	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	0.61	<1	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	252.0	244.0	140.0	385.0	177.0	337.0	6.3	7.1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons		268.0	262.5	157.43	409.7	192.3	357.4	6.3	7.1			
Total Concentration of VOCs		268.0	262.5	157.43	409.7	192.3	357.4	6.3	7.1			

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 B4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	58A-00-3		7-00-4		25A-00-5		52A-00-6	
		Jun-00	(D)*	Jun-00	(D)*	Jun-00	(D)*	Jun-00	(D)*
Aromatic and Non-Halogenated Hydrocarbons									
Benzene	1	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Bromobenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,2-Dichlorobenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,4-Dichlorobenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Ethylbenzene	700	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Hexachlorobutadiene		<3	<0.5	<3	<0.5	<3	<0.5	<3	<0.5
Isopropylbenzene		<2	<0.5	<2	<0.5	<2	<0.5	<2	<0.5
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Naphthalene		<2	<0.5	<2	<0.5	<2	<0.5	<2	<0.5
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Toluene	150	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Xylenes, total	1750	<2	<1	<2	<1	<2	<1	<2	<1
Total Aromatic Hydrocarbons									
Halogenated Non-Aromatic Hydrocarbons									
Bromodichloromethane	100	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Bromoform		<2	<0.5	<2	<0.5	<2	<0.5	<2	<0.5
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Chloroform	100	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,1-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,2-Dichloroethane	0.5	<2	<0.5	<2	<0.5	<2	<0.5	<2	<0.5
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<0.5	<2	<0.5	<2	<0.5	<2	<0.5
Tetrachloroethene	5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
Total Halogenated Hydrocarbons									
Total Concentration of VOCs									

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< = Less than Quantitation Limit

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

Table B4.3-2
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB6-96-1				SB6-96-2			SB7BPL-96-11				
		Aug-96	Aug-96	Apr-98	Mar-99	Nov-96	Apr-98	Mar-99	Sep-96	(D)*	Nov-96	Dec-96	Dec-97
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<20	<50	<20	<10	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<20	<50	<20	<10	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<20	<100	<20	<10	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<20	<50	<20	<10	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	1.1	<1	238.0	320.0	1,130	320.0	184.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	47.9	60.0	111.0	33.3	12.3
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<10	<100	<10	<5	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<20	<50	<20	<10	<2
Tetrachloroethene	5	<1	<1	<1	<1	1.2	<1	<1	924.0	1000.0	6,590	2,373	411.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<10	<50	20.8	9.0	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Trichloroethene	5	<1	<1	<1	<1	7.1	3.5	2.4	1370.0	1200.0	5,780	801.0	327.0
Freon-11		<2	<2	<2	<2	<2	<2	<2	<20	<50	<20	<10	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<10	<50	<10	<5	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	60.8	82.0	<10	<5	<1
Total Halogenated Hydrocarbons						8.3	4.6	2.4	2640.7	2662.0	13,632	3,536.3	934.3
Total Concentration of VOCs						8.3	4.6	2.4	2640.7	2662.0	13,632	3,536.3	934.3

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
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(D) = Duplicate sample

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB7-97-1					SB7-98-1		SB27-96-1				
		Nov-97	Dec-97	Mar-99	Oct-99	Mar-00	Mar-98	May-98*	Aug-96	Nov-96	Apr-98	Mar-99	Oct-99
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<1	<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
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	0.85	3.2	<1	<1	2.1	1.5
Chloroform	100	16.8	6.5	5.2	12.5	<1	13.0	12.0	10.9	1.1	1.3	6.5	7.2
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	0.52	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	1.3	<1	<1	<1	<1	1.8	1.6	1.7	1.4	<1	<1	1.2
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<0.5	8.9	12.4	53.3	5.7	5.6
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	2.8	12.4	8.0	37.1	19.3	14.5	16.3	23.8
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	12.8	4.7	<1	7.5	3.5	10.8	6.9	33.4	37.1	32.6	11.3	27.6
Freon-11		<1	<1	<1	<1	<1	<1	<0.5	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	1.8	<1	<1	<1
Total Halogenated Hydrocarbons		30.9	11.2	5.2	20.0	6.3	38.0	29.87	95.2	73.1	101.7	41.9	66.9
Total Concentration of VOCs		30.9	11.2	5.2	20.0	6.3	38.0	29.87	95.2	73.1	101.7	41.9	66.9

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Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB53-96-1 Jun-96	Jun-96	Aug-96	Nov-96	Nov-96	Apr-98	Dec-98	Mar-99	(D)*	Jun-99	Oct-99	Nov-99	(D)*	Mar-00
Aromatic and Non-Halogenated Hydrocarbons															
Benzene	1	<50	9.8	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Chlorobenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
n-Butylbenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
sec-Butylbenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
ter-Butylbenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Ethylbenzene	700	<100	<2	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Isopropylbenzene		<50	<1	<100	<100	<100	<200	<20	<1000	<300	<1000	<1000	<1000	<100	<200
p-Isopropyltoluene		<50	11.6	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Naphthalene		<50	<1	<100	<100	<100	<200	<20	<2500	<300	<1000	<1000	<1000	<100	<200
n-Propylbenzene		<100	<2	<50	<50	<50	<100	<10	<1000	<300	<500	<500	<500	<100	<100
Toluene	150	<50	4.2	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
1,2,4-Trichlorobenzene	70	<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
1,2,4-Trimethylbenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
1,3,5-Trimethylbenzene		<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Xylenes, total	1750	<100	<2	<100	<100	<100	<200	<20	<1000	<500	<1000	<1000	<1000	<100	<200
Total Aromatic Hydrocarbons			25.6												
Halogenated Non-Aromatic Hydrocarbons															
Bromoform		<100	4.5	<50	<50	<50	<100	<20	<1000	<300	<1000	<1000	<1000	<100	<200
Carbon Tetrachloride	0.5	425.0	628.0	1780.0	401.0	191.0	876.0	469.0	<500	610.0	<500	751.0	550.0	890.0	776.0
Chloroform	100	<50	187.0	318.0	242.0	248.0	<100	63.2	<500	<300	<500	<500	<500	130.0	<100
1,1-Dichloroethane	5	<50	28.0	<50	<50	<50	<100	23.6	<500	<300	<500	<500	<500	<100	<100
1,2-Dichloroethane	0.5	<100	5.9	<100	<100	<100	<200	<20	<1000	<300	<1000	<1000	<1000	<100	<200
1,1-Dichloroethene	6	165.0	225.0	181.0	214.0	150.0	202.0	159.0	<500	<300	<500	<500	<500	190.0	121.0
cis-1,2-Dichloroethene	6	704.0	656.0	594.0	930.0	855.0	611.0	641.0	<500	480.0	<500	<500	<500	600.0	460.0
trans-1,2-Dichloroethene	10	<50	8.3	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Methylene Chloride	5	<50	6.7	<50	<50	<50	<100	<10	<500	<500	<500	<500	<500	<100	<100
1,1,1,2-Tetrachloroethane		<50	75.3	<100	<100	<100	<200	<20	<1000	<300	<1000	<1000	<1000	<100	<200
Tetrachloroethene	5	20,600	21,400	16,700	7,880	9,650	47,900	37,500	37,800	31,000	38,300	25,400	29,800	31,000	28,800
1,1,1-Trichloroethane	200	54.0	34.0	<50	<50	<50	<100	13.2	<500	<0.5	<500	<500	<500	<100	1,250
1,1,2-Trichloroethane	5	<50	11.5	<50	<50	<50	<100	<10	<500	<0.5	<500	<500	<500	<100	<100
Trichloroethene	5	9,150	14,000	29,700	22,680	23,700	25,500	15,300	13,700	14,000	20,900	33,500	29,000	35,000	12,600
Freon-11		<50	<1	<100	<100	<100	<200	<30	<500	<300	<500	<500	<500	<100	<100
Freon-113	1200	<50	<1	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Vinyl Chloride	0.5	<50	21.9	<50	<50	<50	<100	<10	<500	<300	<500	<500	<500	<100	<100
Total Halogenated Hydrocarbons		31,098	37,292	49,273.0	32,347	34,794	75,089.0	54,169	51,500	46,090	59,200	59,651	59,350	67,810	44,007
Total Concentration of VOCs		31,098	37,318	49,273.0	32,347	34,794	75,089.0	54,169	51,500	46,090	59,200	59,651	59,350	67,810	44,007

MCL = Maximum contaminant level for drinking water
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(D) = Duplicate sample

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB53-96-2 (converted to MW58-96-11)			SB53-96-3										
		Jun-96	Jun-96	Aug-96	Jun-96	Jun-96	Aug-96	Nov-96	Apr-98	Dec-98	Mar-99	Jun-99	Oct-99	Nov-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons															
Benzene	1	<50	<1	<50	<50	1.9	<50	<1	<100	<10	<100	<10	<10	<100	<50
Chlorobenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
n-Butylbenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
sec-Butylbenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
ter-Butylbenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Ethylbenzene	700	<100	<2	<50	<100	<2	<50	<1	<100	<10	<100	<10	<10	<100	<50
Isopropylbenzene		<50	<1	<100	<50	<1	<100	<2	<200	<20	<200	<20	<20	<200	<100
p-Isopropyltoluene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Naphthalene		<50	<1	<100	<50	<1	<100	<2	<200	<20	<200	<20	<20	<200	<100
n-Propylbenzene		<100	<2	<50	<100	<2	<50	<1	<100	<10	<100	<10	<10	<100	<50
Toluene	150	<50	<1	<50	<50	11.1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,2,4-Trichlorobenzene	70	<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,2,4-Trimethylbenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,3,5-Trimethylbenzene		<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Xylenes, total	1750	<100	<2	<100	<100	<2	<100	<2	<200	<20	<200	<20	<20	<200	<100
Total Aromatic Hydrocarbons						13.0									
Halogenated Non-Aromatic Hydrocarbons															
Bromodichloromethane		<100	<1	<100	<100	22.8	<100	<2	<200	<20	<200	<20	<20	<200	<100
Carbon Tetrachloride	0.5	1,615	15.0	2,330	<50	1,990	<50	37.9	<100	<10	<100	11.2	50.0	<100	<50
Chloroform	100	105.0	6.6	89.5	<50	114.0	<50	6.2	<100	<10	<100	<10	<10	<100	<50
1,1-Dichloroethane	5	<50	4.4	<50	<50	46.9	<50	4.7	<100	<10	<100	<10	14.7	<100	<50
1,2-Dichloroethane	0.5	<100	<1	<100	<100	18.4	<100	<2	<200	<20	<200	<20	<20	<200	<100
1,1-Dichloroethene	6	355.0	32.7	380.0	<50	518.0	<50	51.5	<100	10.4	<100	24.4	77.8	<100	<50
cis-1,2-Dichloroethene	6	1,470	115.0	1300.0	130.0	2,143	98.0	124.0	111.0	56.2	442.0	60.2	69.0	<100	205.0
trans-1,2-Dichloroethene	10	<50	<1	<50	<50	12.5	<50	<1	<100	<10	<100	<10	<10	<100	<50
Methylene Chloride	5	<50	<1	<50	<50	14.3	<50	<1	<100	<10	<100	<10	<10	<100	<50
1,1,1,2-Tetrachloroethane		<50	6.7	94.8	<50	165.0	<100	<2	<200	<20	<200	<20	<20	<200	<100
Tetrachloroethene	5	28,050	3,780	29,170	3,290	30,900	2,230	5,130	1,970	1,200	11,400	1680	3,830	1,940	1,430
1,1,1-Trichloroethane	200	<50	16.5	<50	<50	3.4	<50	20.2	<100	<10	<100	<10	<10	<100	<50
1,1,2-Trichloroethane	5	<50	2.9	<50	<50	22.6	<50	2.1	<100	<10	<100	<10	<10	<100	<50
Trichloroethene	5	31,350	436.0	31,150	465.0	31,900	312.0	883.0	306.0	178.0	1,820	419.0	1,340	562.0	276.0
Freon-11		<50	<1	<100	<50	<1	<100	<2	<100	<10	<100	<10	<10	<100	<50
Freon-113	1200	<50	<1	<50	<50	<1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Vinyl Chloride	0.5	<50	<1	<50	<50	16.1	<50	<1	<100	<10	<100	<10	<10	<100	<50
Total Halogenated Hydrocarbons		62,945	4,415.8	64,514.3	3885.0	67,887	2640.0	6,259.6	2,387	1,444.6	13,662	2,194.8	5,381.5	2,502.0	1,911
Total Concentration of VOCs		62,945	4,415.8	64,514.3	3885.0	67,900	2640.0	6,259.6	2,387	1,444.6	13,662	2,194.8	5,381.5	2,502.0	1,911

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< = Less than Quantitation Limit

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB53-96-4				SB53-96-5			SB58-95-1		
		Jul-96	Aug-96	Nov-96	Apr-98	Aug-96	Aug-96	Apr-98	Jun-95*	(D)	Jun-99
Aromatic and Non-Halogenated Hydrocarbons											
Benzene	1	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Chlorobenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
n-Butylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
sec-Butylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
ter-Butylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Ethylbenzene	700	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Isopropylbenzene		<20	<100	<2	<10	<2	<200	<10	<0.5	<2	<2
p-Isopropyltoluene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Naphthalene		<20	<100	<2	<10	<2	<200	<10	<0.5	<2	<2
n-Propylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Toluene	150	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
1,2,4-Trichlorobenzene	70	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
1,2,4-Trimethylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
1,3,5-Trimethylbenzene		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Xylenes, total	1750	<20	<100	<2	<10	<2	<200	<10	<1	<2	<2
Total Aromatic Hydrocarbons											
Halogenated Non-Aromatic Hydrocarbons											
Bromodichloromethane		<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Carbon Tetrachloride	0.5	<10	<50	13.8	<5	1.4	<100	<5	<0.5	<1	<1
Chloroform	100	<10	<50	22.9	8.5	7.0	<100	<5	<0.5	<1	<1
1,1-Dichloroethane	5	<10	<50	4.8	<5	4.2	<100	<5	1.2	4.7	<1
1,2-Dichloroethane	0.5	<20	<100	1.2	<10	3.0	<200	<10	<0.5	<2	<2
1,1-Dichloroethene	6	19.0	<50	9.7	6.4	3.3	<100	15.0	4.7	7.0	<1
cis-1,2-Dichloroethene	6	510.0	540.0	85.2	41.7	490.0	520.0	1,250	2.3	6.1	1.4
trans-1,2-Dichloroethene	10	<10	<50	<1	<5	1.4	<100	<5	<0.5	4.2	<1
Methylene Chloride	5	<10	<50	<1	<5	1.4	<100	<5	<1	<1	<1
1,1,1,2-Tetrachloroethane		<20	<100	<2	<5	<2	<2	<5	<0.5	<2	<2
Tetrachloroethene	5	286.0	96.0	387.0	135.0	207.0	201.0	735.0	5.2	7.2	2.8
1,1,1-Trichloroethane	200	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
1,1,2-Trichloroethane	5	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Trichloroethene	5	774.0	373.0	373.0	91.3	340.0	312.0	528.0	20.0	26.6	5.4
Freon-11		<20	<100	<2	<5	<2	<200	<5	<0.5	<2	<2
Freon-113	1200	<10	<50	<1	<5	<1	<100	<5	<0.5	<1	<1
Vinyl Chloride	0.5	88.9	88.8	1.4	<5	<1	<100	<5	1.2	<1	<1
Total Halogenated Hydrocarbons		1677.9	1097.8	899.0	282.9	1,058.7	1,033.0	2,528	34.60	55.8	9.6
Total Concentration of VOCs		1677.9	1097.8	899.0	282.9	1,058.7	1,033.0	2,528	34.60	55.8	9.6

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
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(D) = Duplicate sample

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-95-2							SB58-01-02					
		Jun-95	(D)*	Sep-95	Dec-95	Jun-99	Oct-99	Mar-00	Aug-96	Aug-96	Nov-96	Dec-98	Jun-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Chlorobenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Carbon Tetrachloride	0.5	7.4	3.2	1.5	1.4	<1	<1	1.2	<1	<1	<1	<10	<1	<1
Chloroform	100	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
1,1-Dichloroethane	5	14.5	11.0	10.8	10.0	4.0	4.6	4.5	<1	<1	2.2	<10	7.6	9.8
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2
1,1-Dichloroethene	6	43.0	41.0	44.5	46.5	12.6	13.6	12.2	<1	<1	5.6	17.9	18.4	22.0
cis-1,2-Dichloroethene	6	10.3	7.8	9.3	9.0	6.3	4.6	6.9	<1	<1	1.9	<10	9.2	9.2
trans-1,2-Dichloroethene	10	4.1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
1,1,1,2-Tetrachloroethane		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2
Tetrachloroethene	5	48.4	37.0	38.2	50.4	29.7	21.0	29.3	<1	<1	<1	20.6	32.3	31.2
1,1,1-Trichloroethane	200	4.0	1.4	1.6	1.7	1.2	<1	1.6	<1	<1	<1	<10	<1	<1
1,1,2-Trichloroethane	5	2.3	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Trichloroethene	5	74.9	56.0	52.9	58.1	22.9	26.9	20.4	<1	1.2	12.0	40.3	48.7	45.1
Freon-11		<2	<0.5	<2	<2	<2	<2	<1	<2	<2	<2	<20	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1
Vinyl Chloride	0.5	<1	4.7	2.7	3.2	1.8	<1	2.4	<1	<1	<1	<10	<1	<1
Total Halogenated Hydrocarbons		208.9	163.40	161.5	180.3	78.5	70.7	78.5		1.2	21.7	78.8	116.2	117.3
Total Concentration of VOCs		208.9	163.40	161.5	180.3	78.5	70.7	78.5		1.2	21.7	78.8	116.2	117.3

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

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(D) = Duplicate sample

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-96-1							
		Jul-96	Aug-96	Nov-96	Apr-98	Mar-99	Jun-99	Oct-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons									
Benzene	1	<1	<1	<1	<1	<10	<10	<50	<10
Chlorobenzene		<1	<1	<1	<1	<10	<10	<50	<10
n-Butylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
sec-Butylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
ter-Butylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
Ethylbenzene	700	<1	<1	<1	<1	<10	<10	<50	<10
Isopropylbenzene		<2	<2	<2	<2	<20	<20	<100	<20
p-Isopropyltoluene		<1	<1	<1	<1	<10	<10	<50	<10
Naphthalene		<2	<2	<2	<2	<20	<20	<100	<20
n-Propylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
Toluene	150	<1	<1	<1	<1	<10	<10	<50	<10
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<10	<10	<50	<10
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<10	<10	<50	<10
Xylenes, total	1750	<2	<2	<2	<2	<20	<20	<100	<20
Total Aromatic Hydrocarbons									
Halogenated Non-Aromatic Hydrocarbons									
Bromodichloromethane		<1	<1	<1	<1	<10	<10	<50	<10
Carbon Tetrachloride	0.5	<1	<1	<1	3.3	<10	<10	<50	<10
Chloroform	100	<1	<1	<1	15.6	<10	<10	<50	<10
1,1-Dichloroethane	5	<1	<1	<1	2.3	<10	<10	<50	<10
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<20	<20	<100	<20
1,1-Dichloroethene	6	<1	<1	<1	4.2	<10	<10	<50	<10
cis-1,2-Dichloroethene	6	<1	<1	1.3	131.0	98.4	142.0	78.5	105.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<10	<10	<50	<10
Methylene Chloride	5	<1	<1	<1	<1	<10	<10	<50	<10
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<20	<20	<100	<20
Tetrachloroethene	5	<1	1.0	2.0	538.0	481.0	547.0	214.0	272.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<10	<10	<50	<10
1,1,2-Trichloroethane	5	<1	<1	<1	1.9	<10	<10	<50	<10
Trichloroethene	5	1.1	1.7	4.3	872.0	782.0	936.0	690.0	254.0
Freon-11		<2	<2	<2	<1	<10	<10	<50	<10
Freon-113	1200	<1	<1	<1	<1	<10	<10	<50	<10
Vinyl Chloride	0.5	<1	<1	<1	<1	<10	<10	<50	<10
Total Halogenated Hydrocarbons		1.1	2.7	7.6	1,568.3	1361.4	1,625	982.5	631.0
Total Concentration of VOCs		1.1	2.7	7.6	1,568.3	1361.4	1,625	982.5	631.0

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Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
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
Aromatic and Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Chlorobenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
n-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
sec-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
ter-Butylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Ethylbenzene	700	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Isopropylbenzene		<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100
p-Isopropyltoluene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Naphthalene		<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100
n-Propylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Toluene	150	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
1,2,4-Trichlorobenzene	70	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
1,2,4-Trimethylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
1,3,5-Trimethylbenzene		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Xylenes, total	1750	<2	<2	<20	<20	<20	<2	<100	<200	<200	<0.5	<100
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Carbon Tetrachloride	0.5	3.3	<1	33.9	<10	25.6	20.0	<50	<100	<100	19.0	<50
Chloroform	100	1.9	1.5	14.9	<10	<10	4.2	<50	<100	<100	5.7	<50
1,1-Dichloroethane	5	6.3	8.8	23.2	<10	15.4	16.1	<50	<100	<100	21.0	<50
1,2-Dichloroethane	0.5	<2	<2	<20	<20	<20	<2	<100	<200	<200	0.78	<100
1,1-Dichloroethene	6	10.7	31.2	111.0	31.5	72.5	71.5	61.2	<100	<100	73.0	83.8
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
trans-1,2-Dichloroethene	10	<1	<1	<10	<10	<10	1.1	<50	<100	<100	1.9	<50
Methylene Chloride	5	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
1,1,1,2-Tetrachloroethane		<2	<2	<20	<20	<20	<2	<100	<200	<200	4.7	<100
Tetrachloroethene	5	525.0	320.0	3,650	503.0	4560	3150	2,570	2,790	2,340	2,400	3,440
1,1,1-Trichloroethane	200	1.8	<1	<10	<10	<10	<1	<50	<100	<100	3.7	<50
1,1,2-Trichloroethane	5	1.3	<1	<10	<10	<10	<1	<50	<100	<100	3.8	<50
Trichloroethene	5	173.0	187.0	1,350	251.0	1200	885.0	1,020	1,040	863.0	860.0	1,090
Freon-11		<2	<2	<20	<20	<10	<1	<50	<100	<100	<0.5	<50
Freon-113	1200	<1	<1	<10	<10	<10	<1	<50	<100	<100	<0.5	<50
Vinyl Chloride	0.5	<1	<1	<10	<10	<10	<1	<50	<100	<100	0.97	<50
Total Halogenated Hydrocarbons		748.1	575.8	5,311.0	817.9	5981.5	4,250.9	3,721	3,830.0	3,203.0	3,494.6	4,769
Total Concentration of VOCs		748.1	575.8	5,311.0	817.9	5981.5	4,250.9	3,721	3,830.0	3,203.0	3,494.6	4,769

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 B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-97-1					SB58-98-1				SB58-98-4						
		Nov-97	Nov-97	Apr-98	Jun-99	Mar-00	Mar-98	Jan-99	Mar-99	Oct-99	Mar-98	Apr-98	Apr-98	May-98	Jun-98	Jul-98	Aug-98
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<10	<2	<20	<200	<100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<25	<5	<50	<500	<250	35.4	2.2	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<10	<2	<20	<200	<100	<2	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<10	<100	<50	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<10	<100	<50	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<10	<2	<20	<200	<100	5.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons							44.2	2.2									
Halogenated Non-Aromatic Hydrocarbons																	
Bromodichloromethane		<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	9.3	10.7	607.0	<100	<50	<1	<1	<1	<1	2.0	2.0	1.7	<1	<1	<1	<1
Chloroform	100	9.0	10.3	77.1	<100	<50	<1	<1	<1	<1	10.9	12.3	11.2	8.4	4.0	<1	<1
1,1-Dichloroethane	5	<5	1.8	16.3	<100	<50	9.4	2.7	2.1	2.8	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<10	<2	<20	<200	<100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	3.0	107.0	<100	<50	42.8	7.6	6.3	7.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	58.8	53.7	587.0	199.0	161.0	7.2	2.7	2.8	2.5	7.1	6.8	8.0	7.6	5.3	1.2	<1
trans-1,2-Dichloroethene	10	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<5	<2	30.1	<200	<100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	377.0	446.0	12,500	3220	826.0	21.8	1.6	2.7	2.9	34.5	35.6	33.6	25.8	18.1	2.5	<1
1,1,1-Trichloroethane	200	<5	<1	<10	237.0	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	861.0	890.0	19,200	3360	449.0	59.2	7.1	7.7	7.5	27.2	29.1	24.8	22.0	14.9	2.2	<1
Freon-11		<5	<1	<20	<100	<50	<2	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<10	<100	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1,315	1,415.5	33,124.5	7,016	1,436	140.4	21.7	21.6	23.2	81.7	85.8	79.3	63.8	42.3	5.9	
Total Concentration of VOCs		1,315	1,415.5	33,124.5	7,016	1,436	184.6	23.9	21.6	23.2	81.7	85.8	79.3	63.8	42.3	5.9	

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB58-98-6							SB58-98-7		SBY-96-1		
		May-98	Dec-98	Mar-99	Jun-99	Oct-99	Nov-99	Mar-00	Jun-98	Oct-99	Feb-96	Feb-96	Apr-96
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	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
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
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1
p-Isopropyltoluene		<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<5	<5	<5	<5	<5	<5	<5	<5	<5			
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<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	<2	<2	<2
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons						1.3							
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<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
Chloroform	100	<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
1,2-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	11.4	2.5	2.5	3.9	1.2	1.3	2.8	2.8	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<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-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	1.0	1.9	<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	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11		<2	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1
Freon-113	1200	<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		12.8	2.5	2.5	3.9	1.2	2.3	4.7	2.8				
Total Concentration of VOCs		12.8	2.5	2.5	3.9	2.5	2.3	4.7	2.8				

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

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

(D) = Duplicate sample

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SBY-96-2				SBY-96-3			SB16-97-11		SB16-98-1			
		Feb-96	Feb-96	Mar-96	Apr-96	Feb-96	Feb-96	Apr-96	Nov-97	Dec-97	Mar-98	Dec-98*	Mar-99	Jun-99
Aromatic and Non-Halogenated Hydrocarbons														
Benzene	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	<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	700	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<0.5	<1	<1
Isopropylbenzene		<1	<1	<1	<1	<1	<1	<1	<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									<5	<5	<5	<0.5	<5	<5
Naphthalene		<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<0.5	<2	<2
n-Propylbenzene		<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<0.5	<1	<1
Toluene	150	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
1,2,4-Trimethylbenzene		<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<0.5	<1	<1
1,3,5-Trimethylbenzene		<2	<2	<2	<2	1.8	<2	<2	<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			1.3			1.8								
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<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	<0.5	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	11.9	1.3	8.2	17.0	11.7	12.4
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	4.0	<1	<0.5	<1	<1
cis-1,2-Dichloroethene	6	<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	<0.5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<0.5	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	31.3	100.0	<1	<0.5	<1	1.7
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	5.0	17.3	15.8	17.0	13.8	24.5
Freon-11		<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<0.5	<1	<1
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									48.2	123.7	24.0	34.0	25.5	38.6
Total Concentration of VOCs			1.3			1.8			48.2	123.7	24.0	34.0	25.5	38.6

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 B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB25A-96-1					SB25A-96-2 (converted to MW25A-98-1)				
		Aug-96	Oct-96	Dec-96	Dec-97	Apr-98	Aug-96	Oct-96	Dec-96	Dec-97	Apr-98
Aromatic and Non-Halogenated Hydrocarbons											
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether					<5	<5				<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<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
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	62.2	73.4	35.9	1.7	3.8	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<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
1,1-Dichloroethene	6	2.2	1.0	<1	<1	2.0	1.9	3.0	<1	<1	1.4
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	1.6	<1	1.5	<1
trans-1,2-Dichloroethene	10	<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-Tetrachloroethane		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	3.9	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<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
Trichloroethene	5	28.4	38.3	9.3	3.9	10.7	9.3	77.8	35.4	249.0	180.0
Freon-11		<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		92.8	112.7	45.2	9.5	16.5	11.2	82.4	35.4	250.5	181.4
Total Concentration of VOCs		92.8	112.7	45.2	9.5	16.5	11.2	82.4	35.4	250.5	181.4

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

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

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB25A-96-3						SB44-98-1		
		Oct-96	Dec-96	Dec-97	Apr-98	Mar-99	Oct-99	Apr-98	Mar-99	Oct-99
Aromatic and Non-Halogenated Hydrocarbons										
Benzene	1	<1	<1	<1	<1	<1	<1	<5	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<5	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<10	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<5	<1	<1
Methyl tert-Butyl Ether				<5	<5	<5	<5	<25	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<10	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<5	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<10	<2	<2
Total Aromatic Hydrocarbons										
Halogenated Non-Aromatic Hydrocarbons										
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<5	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<5	<1	<1
Chloroform	100	<1	<1	3.8	24.7	10.0	9.5	<5	<1	1.4
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<10	<2	<2
1,1-Dichloroethene	6	1.8	<1	<1	<1	3.6	1.5	<5	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<5	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<5	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<10	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<5	1.0	2.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<5	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<5	<1	<1
Trichloroethene	5	45.8	31.5	2.4	2.9	11.9	18.4	8.7	4.2	7.0
Freon-11		<2	<2	<2	<2	<1	<1	<10	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<5	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<5	<1	<1
Total Halogenated Hydrocarbons		47.6	31.5	6.2	27.6	25.5	29.4	8.7	5.2	10.4
Total Concentration of VOCs		47.6	31.5	6.2	27.6	25.5	29.4	8.7	5.2	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

Table B4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB5A-98-1			SB52A-98-1		
		Apr-98	Mar-99	Oct-99	Apr-98	Mar-99	Oct-99
Aromatic and Non-Halogenated Hydrocarbons							
Benzene	1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<5	<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	17.5	14.4
Chloroform	100	<1	<1	<1	26.8	35.3	49.1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	20.9	52.0	45.6
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	1.1	1.9
Methylene Chloride	5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	35.3	58.7	46.0	8.1	39.9	22.5
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	2.3	1.2	1.2	36.0	114.0	142.0
Freon-11		<2	<1	<1	<2	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		37.6	59.9	47.2	91.8	259.8	275.5
Total Concentration of VOCs		37.6	59.9	47.2	91.8	259.8	275.5

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table B4.3-2
LBNL Water Sampling
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	Manhole 133					
		Jan-98*	Feb-98	Mar-98	Apr-98	May-98	Jun-98
Aromatic and Non-Halogenated Hydrocarbons							
Benzene	1	<0.5	<1	<1	<1	<1	<1
Chlorobenzene		<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<0.5	<5	<5	<5	<5	<5
Naphthalene		<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<1	<1	<1	<1	<1
Toluene	150	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<0.5	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<0.5	<1	<1	<1	<1	<1
Chloroform	100	5.4	3.1	8.7	3.8	5.1	1.1
1,1-Dichloroethane	5	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<0.5	<2	<2	<2	<2	<2
Tetrachloroethene	5	0.52	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	7.6	3.0	11.5	4.7	6.0	1.4
Freon-11		<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		13.5	6.1	20.2	8.5	11.1	2.5
Total Concentration of VOCs		13.5	6.1	20.2	8.5	11.1	2.5

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

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

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
AOC 2-1	2	7-92-16	Sep-92	C	**750**	**800**			
			May-93	C	**170***	**520**			
			Mar-94	BC	**10,000***		<1,000		
			May-94	BC				**14,000,000†** (Kerosene/Jet Fuel)	
			Aug-94	BC	**590,000** **460,000 (D)**				
			Dec-94	BC				**3900** (Diesel)	
			Feb-95	BC				**390** (Diesel)	
			May-95	AEN(b)				**11,000** (Kerosene) **18,000 (D)** (Kerosene)	
				BC				**12,000 (S)** (Diesel) **1300** (Stoddard/ White Spirits)	
			Aug-95	AEN(a)				**130,000** (Kerosene)	
				BC				**1,400,000 (S)** (Diesel)	
			Dec-95	BC				**89,000** (Diesel)	
				AEN(a)				**100,000 (D)** (Diesel)	
			Mar-96	BC				**420** (Diesel) **620 (S)** (Diesel)	
			Aug-96	BC				**150,000** (Kerosene/Jet Fuel)	
			Dec-96	BC			**26,000** **19,000 (D)** **11,000 (S)**		
			Mar-97	BC	**5800**				
			Apr-97	BC	**420**				
				AEN	**730 (D)**				
			Aug-97	BC	**130**				
			Feb-98	BC	<50				
			Sep-98	BC	**65****				
			Oct-98	BC	**63,000**		**1300**		
			Nov-98	BC			**75**		
			Feb-99	BC			**150**		
			May-99	BC			**1800**		

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
AOC 2-1	2	7-92-16	Sep-99	BC			**2000**		
			Nov-99	BC			**250**		
			Mar-00	BC			**57**		
			May-00	BC			**61**		
			Jun-00	BC	**150**		**58**		
		6-93-4	Oct-93	BC				**460** (Kerosene/Jet Fuel)	
			Mar-94	BC			<200		
			Jun-94	BC	**240**				
			Aug-94	BC	<200				
			Dec-94	BC				**390** (Diesel) **400 (D)** (Diesel)	
			Feb-95	BC				**530** (Diesel)	
			May-95	BC	<200				
			Aug-95	BC	<200				
			Nov-95	BC				**360** (Diesel)	
			Mar-96	BC				**230** (Diesel)	
			Jun-96	BC	<50				
			Aug-96	BC	**440** **300 (S)**				
			Dec-96	BC			**530**		
			Mar-97	BC	**290**				
			Apr-97	BC	**230**				
			Aug-97	BC	**180**				
			Feb-98	BC	**80**				
			Sep-98	BC	**180****				
			Nov-98	BC			**260**		
			Feb-99	BC			**230**		
			Sep-99	BC			**1700**		
			Mar-00	BC			**580**		
			Jun-00	BC	**3300**		**3000**		
		6-95-14	Sep-95	BC	**1100**				
				AEN	**1300 (D)**				
			Dec-95	BC				**1200** (Diesel) **1200 (S)** (Diesel)	
			Mar-96	BC				**290** (Diesel)	
			Jun-96	CLS	<50				

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
AOC 2-1	2	6-95-14	Aug-96	BC				**3600** **950** (Kerosene/Jet Fuel)	
			Dec-96	BC			**51** **50 (D)**		
			Mar-97	BC	<50				
			Apr-97	BC	**54**				
				CLS	<50 (S)				
			Aug-97	BC	<50				
			Mar-98	BC	<50				
			Sep-98	BC	**61****				
			Feb-99	BC				**720** (Diesel) **1500** (Crude/Waste Oil)	
			May-99	BC				**620** (Diesel) **1400** (Crude/Waste Oil)	
			Dec-99	BC				**120** (Diesel)	
			Feb-00	BC				**440** (Diesel)	
			May-00	BC				ND	
			Jun-00	BC	**1100**		**4100**		
	2	MW90-2	Sep-92	C	<50	<50			
			Dec-97	BC				**260** (Crude/Waste Oil)	
			Dec-98	BC				**170** (Crude/Waste Oil)	
		7-92-19	Sep-92	C	<50	<50			
			May-93	C	<50	<50			
			Jun-94	BC	<200				
			Dec-97	BC				**810** (Crude/Waste Oil)	
		53-93-16-42'	Dec-96	BC	**110**				
		53-93-16-69'	Jun-96	BC				**95** (Diesel)	
			Dec-96	BC	**91**				
		7-94-3	Jun-94	BC	<200				
			Dec-97	BC				**440** (Crude/Waste Oil)	
		7B-95-21	Nov-96	BC				**3200** **10,000 (D)** (Crude/Waste Oil)	
			Dec-97	BC				**940** (Crude/Waste Oil)	

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	2	7-95-22	Nov-96	BC		**9900**		**840** (Diesel)	
			Dec-97	BC				**350** (Diesel)	
		7-95-23	Nov-96	BC				**530** **680 (S)** (Crude/Waste Oil)	
			Dec-97	BC				**1700** **1100 (D)** (Crude/Waste Oil)	
		7B-95-24	Dec-97	BC				**520** **480 (S)** (Diesel)	
		7B-95-25	Dec-97	BC				**260** (Crude/Waste Oil)	
		53-95-12	Dec-97	BC				**410** (Gasoline) **86** (Diesel)	
			Jun-98	BC				**790** (Crude/Waste Oil)	
			Dec-98	BC				**100** (Diesel)	
		53-96-1	Nov-96	BC	**85**				
		58-96-11	Dec-97	BC				**52** (Diesel)	
			Jun-98	BC				**870** (Crude/Waste Oil)	
			Dec-98	BC				**150** (Diesel)	
SWMU 2-2	2	52B-95-13	Jun-96	BC				**920** (Crude/Waste Oil) **230 (D)** (Diesel)	
			Sep-96	BC				**160** (Diesel)	
			Nov-96	CLS				ND	
			Mar-97	BC				**110** (Diesel)	
			Jun-97	BC	**210**				
			Sep-97	BC	**200**				
			Mar-98	BC	**64**				
			Sep-98	BC	**90**				
			Mar-99	BC	<50				
	7	46-92-9	Jun-95	BC		<50		ND	
			Mar-98	BC				ND	

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	7	46-92-9	Feb-99	BC				**130** (Crude/Waste Oil)	
			Jun-94	BC	<200				
			Jun-95	BC				ND	
			Jun-96	BC	<50				
		58-93-3	Sep-96	BC	**80**				
			Nov-96	BC	**86**				
			Nov-97	BC	**64**				
			Jun-98	BC	<50				
			Nov-98	BC	<50				
		58-95-11	Jun-95	BC				ND	
			Jun-96	CLS	<50				
			Aug-96	BC	<50				
			Nov-96	BC	**60**		<50		
			Jun-98	BC	<50				
		58-95-18	Sep-95	BC	<200				
				AEN	<50 (D)				
			Jun-97	BC				ND (G) ND (S)(G)	
		51-96-3	May-98	BC				ND	
	10	52-93-14	Apr-97	BC				**230** (Crude/Waste Oil)	
			Mar-98	BC				**210** (Crude/Waste Oil)	
			Mar-99	BC				**240** (Crude/Waste Oil)	
		16-94-13	Feb-95	BC				ND	**1000** **2000 (D)** <1000 (S)
			Dec-95	BC				**150** (Diesel)	
			Mar-96	BC	**180**			**220** (Diesel) **210 (D)** (Diesel)	
			Jun-96	CLS	<50				
			Sep-96	BC	**52** **66 (D)**				
			Nov-96	BC	<50				
			Mar-97	BC	**61**				
			Jun-97	BC	**74**				
			Sep-97	BC	**80**				
			Dec-97	BC	<50 <50 (D)				
			Mar-98	BC	<50				
			Jun-98	BC	<50				

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	10	16-94-13	Sep-98	BC	**75**				
			May-99	BC	<50				
		25-95-27	Apr-96	CLS	<50				
AOC 14-7	14	37-92-6	Mar-94	BC				ND	
			May-94	BC				ND	
			Sep-94	BC	<200				
AOC 2-1	14	6-92-17	May-93	C	<50	<50			
			Jun-94	BC	<200				
AOC 14-7	14	37-92-18	Mar-94	BC				ND	
			May-94	BC				ND	
			Feb-95	BC				ND	
		37-92-18A	Mar-94	BC				ND	
			Jun-94	BC				ND	
		37-93-5	Sep-99	BC				**520** (Diesel) **320** Hydraulic/Motor Oil	
		37-94-9	May-94	BC				ND	
			Jun-94	BC				ND	
			Aug-94	BC	<200				
			Mar-95	BC	<200				
			May-95	BC	<200				
			Aug-95	BC	<200				
			Apr-96	CLS	<50				
			May-96	CLS	<50				
			Aug-96	BC	**55**				
			Dec-96	BC	<50				
			Mar-97	BC	<50				
			May-97	BC	<50				
			Nov-97	BC	<50				
			May-98	BC	<50				
			Nov-98	BC	<50				
			Aug-99	BC	<50				
		MWP-7	Mar-94	BC				ND	
			May-94	BC				ND	
			Sep-94	BC	<200				
Temporary Wells and Borings									
	2	SB7-95-4	May-95	BC				**10,000** (Diesel)	
		SB7-97-1	Mar-99	BC	<50				
			Oct-99	BC				**150** (Crude/Waste Oil)	
			Mar-00	BC	<50				
	7	SB6-96-1	Aug-96	BC				**260** (Crude/Waste Oil)	

Table B4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	7	SB6-96-2	Nov-96	BC				**640** (Crude/Waste Oil)	
		SB6-96-2	Mar-99	BC				**510** (Crude/Waste Oil)	
		SB58-95-1	Jun-95	BC				ND	
		SB58-95-2	Jun-95	BC				ND	
		SB58-98-4	Mar-98	BC	<50				

	= Not Sampled
<	= Constituent not detected above reporting limit
ND	= All target analytes not detected above reporting limit

TPH-FI - TPH-Fuel Identification
(D) = Duplicate sample
(G) = Grab sample
(S) = Split sample
Analysis for TPH-FI by BC Laboratories included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/ Petroleum Benzin, Gasoline, JP4, JP5, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40
(a) - Analysis for extractable range hydrocarbons, by American Environmental Network.
(b) - Analysis for fuel scan by American Environmental Network, included Diesel, Kerosene, and Motor Oil.
* - Unknown hydrocarbon found in diesel range
** - Equipment/Rinse Blank contained 93 µg/L diesel.
†NAPL present in sample. Reported concentration may not be representative of dissolved concentrations

Table B4.4-2
Groundwater Monitoring Well Results
Semi-Volatile Organic Compounds
(Concentrations in µg/L)

Area	Well No.	Lab	Date	8270
2	MW90-2	BC	Aug-94	ND ND
	MW91-7	BC	Aug-94	ND ND
	MW91-8	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 2
	MW7-1*	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 12
	MW1-220	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 11
	7-92-16	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 14000, 2-Methylnaphthalene = 3000, Naphthalene = 960, Phenanthrene = 340
		BC	Dec-94	Bis(2-ethylhexyl)phthalate = 150, 2-Methylnaphthalene = 2, Naphthalene = 2
		BC	Dec-94	Bis(2-ethylhexyl)phthalate = 190, 2-Methylnaphthalene = 4, Naphthalene = 3
	7-92-19	BC	Aug-94	ND
	27-92-20	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 30
	6-93-4	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 5
	53-93-9	BC	Aug-94	ND
	53-93-16-42'	BC	Sep-94	ND
	53-93-16-69'	BC	Aug-94	ND
	53-93-17	BC	Aug-94	ND
	7-94-3	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 3
	52B-95-13	CLS	Nov-96	Bis(2-ethylhexyl)phthalate = 18
		BC	Mar-97	Bis(2-ethylhexyl)phthalate = 46
		BC	Mar-97	Bis(2-ethylhexyl)phthalate = 120 (D)
		BC	Mar-97	Bis(2-ethylhexyl)phthalate = 133 (S)
		BC	Mar-98	Bis(2-ethylhexyl)phthalate = 18
7	46-92-9	BC	Aug-94	ND
	58-93-3	BC	Sep-94	Bis(2-ethylhexyl)phthalate = 2.1
	46-93-12	BC	Aug-94	ND
10	MW91-9	BC	Aug-94	ND
	MWP-8	BC	Aug-94	ND
	26-92-11	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 2
	5-93-10	BC	Aug-94	ND
	25-93-15	BC	Aug-94	ND

Table B4.4-2 (Cont'd)
Groundwater Monitoring Well Results
Semi-Volatile Organic Compounds
(Concentrations in µg/L)

Area	Well No.	Lab	Date	8270
14	MWP-4	BC	Sep-94	ND
	MWP-5	BC	Aug-94	ND
	MWP-6	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 3
	MWP-7	BC	Sep-94	ND
	37-92-5	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 3
	37-92-6	BC	Sep-94	ND
	6-92-17	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 3
	37-92-18	BC	Sep-94	ND
	37-92-18A	BC	Sep-94	Bis(2-ethylhexyl)phthalate = 2.5 Bis(2-ethylhexyl)phthalate = 4.1
	37-93-5	BC	Aug-94	ND
	37-94-9	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 16

BC = Analysis by BC Laboratories

ND = All target analytes not detected above reporting limit

Table B4.4-3
Polychlorinated Biphenyls (PCBs)
Groundwater Monitoring Wells and
Temporary Groundwater Sampling Points
(Concentrations in µg/L)

Area	Well No.	Lab	Date	PCBs (8080)
Groundwater Monitoring Wells				
2	MW1-220	BC	Nov-98	<0.2
	27-92-20	BC	Apr-00	<0.2
	52B-95-13	BC	Dec-98	<0.2
10	52-93-14	BC	Apr-00	<0.2
	16-94-13	BC	Jun-98	<0.2
		BC	May-99	<0.2
Temporary Groundwater Sampling Points				
2	SB7BPL-96-11	BC	Sep-96	<0.2
		CLS	Nov-96	<0.50
		BC	Dec-96	<0.2
10	SB16-97-11	BC	Apr-00	<0.2
	SB16-98-1	BC	Mar-99	<0.5
		BC	Jun-99	<0.2

< = Not detected above reporting limit (reporting limit shown)

BC = Analysis by BC Laboratories

CLS = anaylsis by California Laboratory Services

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
2	MW90-2	LBNL	Nov-92	<2	<5.6	91	<0.7	<6.6	<0.4		<6.6	4.7	<6.2		<12.2	<8	<2	<0.9	<19	<6.7	101
		LBNL	May-93	**90**	<33.5	50	<4.5	<9	<7		<20.5	<5.5	<43.5	<1	<16.5	<61	<1	<12.5	<98.5	<24.5	80
		BC	Mar-94	<100	<2	60	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	May-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<10
		BC	Jun-95	<4	<2	<100	<10	<5	<10		<10	11	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	27
		CLS	Jun-96				<0.5	<5											<1		
	MW91-7	LBNL	Dec-92	<2	<5.6	46	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	61	<4.5	<9	<7		<20.5	<5.5	<43.5	<1	<16.5	<61	<1	<12.5	<98.5	38	<16.5
		BC	Mar-94	<100	<2	60	<10	<10	<10		<50	<10	<50	0.6	<50	<50	<2	<20	<100	30	<10
	MW91-8	AEN	Feb-92	<20	<20	77	<1	<5	<10		<5	<40	<20	<0.3	<10	20	<20	<5	<100	<5	23
		LBNL	Dec-92	<2	<5.6	103	<0.7	<6.6	6		<6.6	11	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	141
		LBNL	May-93	<10	<33.5	94	<4.5	<9	<7		<20.5	<5.5	<43.5	<1	<16.5	<61	<1	<12.5	<98.5	39	<16.5
		BC	Mar-94	<100	<2	110	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	30	<10
		BC	Mar-94	<100	<2	110	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	30	<10
	MW7-1	LBNL	Jan-93	**28**	<33.5	73	<4.5	<9	<7		<20.5	<5.5	<43.5		<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	100	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
	*	BC	Dec-93	<100	3	124	<10	<5	<10		<10	142	11	<0.2	<10	<50	3	<10	<5	<50	124
		BC	Feb-94	<100	<10	100	<10	<10	<10		<50	30	<50	<2	<50	<50	<10	<20	<100	20	30
		BC	May-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	54	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	37
		CLS	Jun-96				<0.5	<5											<1		
		BC	Jun-98	<100	2.4	110	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<10	12	50
		LBNL	Jun-99	<1	2.1	120	<1	<1	2.7		3.0	24.0	<1	<0.2	3.1	10.0	<2	<1	<1	18.8	60.3
	MW1-220	LBNL	Dec-92	<2	38	<6.5	<0.7	<6.6	11		<6.6	4.6	<6.2		120	<8	<0.2	<0.9	<19	47	<7.7
		LBNL	Jun-93	<10	43	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5		60	<61	8.4	<12.5	<98.5	61	<16.5
		BC	Mar-94	<100	42	<10	<10	<10	10		<50	<10	<50	1	120	<50	9	<20	<100	80	<10
		BC	May-95	<4	47	<100	<10	<5	<10		<10	<10	<5	<0.2	33	<50	5.8	<10	<5	82	<10
		LBNL	Mar-96	<50	**54.6**	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	36.7	<50	<4	<5	<5		<5	<5	<5	<0.2	129	<50	6.2	<5	<1	93.8	<20

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	**WELL NO.**	**LAB**	**DATE**																		
2	MW1-220	BC	May-97	<100	40	<100	<10	<10	<10		<50	<10	<5	<0.2	83	<50	5.0	<10	<1	74	<50
		LBNL	May-98		42.6										54.5					66.4	
		LBNL	Apr-99		43.4										55					65.4	
	7-92-16	C	Sep-92	<20	<5	160	<1	<1	<10		<10	<5	<10	<1	<5	<20	<10	<5	<10	20	<5
		LBNL	Sep-92	<150	<60	<70	<10	<70	<10		<70	<10	<60		<120	<60	<0.2	<10	<190	<70	<10
		LBNL	Jan-93	<10	<33.5	200	<4.5	<9	<7		<20.5	<5.5	<43.5		<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	May-93	<10	<33.5	180	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	186	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	120	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
	7-92-19	C	Oct-92	<20	<5	25	<1	<1	10		50	<5	<10	<1	90	<20	**60**	<5	**10**	<10	10
		LBNL	Oct-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	Dec-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	37	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	36	<16.5
		BC	Mar-94	<100	2	30	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
		BC	Mar-94	<100	<2	30	<10	<10	<10		<50	<10	<50	0.2	<50	<50	<10	<20	<100	<10	<10
		LBNL	Jun-97	<4	<2	<50	<4	<5	<5		<5	9.0	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	<100	<10	<10	<10		<50	13	<5	<0.2	<50	<50	<2	<10	<1	17	<10
		LBNL	Jun-99	<1	2.3	38.7	<1	<1	5.6		3.3	1.4	<1	<0.2	2.9	2.0	<2	<1	<1	26.5	<5
		BC	Jun-99	<1	<50	<100	<0.2	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	21	<10
	27-92-20	C	Oct-92	<20	7	130	<1	<1	**60**		750	7	15	<1	600	10	**100**	<5	**40**	30	12
		LBNL	Oct-92	<2	<5.6	117	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	2.1	<0.9	<19	<6.7	<7.7
		LBNL	Jan-93	<10	<33.5	110	<4.5	<9	<7		<20.5	<5.5	<43.5		<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	130	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	30	<10
	6-93-4	BC	Oct-93	<100	<2	164	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	5	190	<2	<5	<10		<5	<10	<40	<0.3	<10	<10	<4	<5	<100	8	<5
		BC	Mar-94	<100	<2	150	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
		BC	Mar-94	<100	<2	130	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
	53-93-9	BC	Oct-93	<100	<2	114	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	4	140	<2	<5	<10		<5	<10	<40	<0.3	<10	<10	<4	<5	<100	18	<5
		BC	Mar-94	<100	<2	160	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	20	<10

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
2	53-93-16-42'	BC	Mar-94	<100	<2	20	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	Mar-94	<100	<2	20	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
	53-93-16-69'	BC	Mar-94	<100	<2	130	<10	<10	<10		<50	<10	<50	0.2	<50	<50	<2	<20	<100	<10	<10
		BC	Mar-94	<100	<2	10	<10	<10	<10		<50	<10	<50	**2.1**	<50	<50	<2	<20	<100	<10	<10
		BC	May-95	<4	<2	<100	<10	<5	27		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
	53-93-17	BC	Jan-94	<100	4.8	<100	<10	<5	<10		<10	<10	<5	<0.2	47	<50	<2	<10	<5	<50	<10
		AEN	Jan-94	<20	6	70	<2	<5	<10		<5	<10	<40	<0.2	50	<10	<4	<5	<100	<5	50
	7-94-3	AEN	Jun-94	<20	4	60	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<100	<5	<10
		BC	Jun-94	<100	<2	60	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	May-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<10
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	<2	101	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	130	<10	<10	<10		<50	11	<5	<0.2	<50	<50	<2	<10	<1	<10	<10
		LBNL	Jun-99	<1	<2	153	<1	<1	4.2		2.1	1.1	<1	<0.2	<1	<1	<2	<1	<1	3.8	<5
	53-95-12	BC	Sep-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	19	<50
		LBNL	Jun-97	<4	<2	63	<4	<5	<5		<5	7.5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	52B-95-13	CLS	Jun-96				<0.5	<5											<1		
		CLS	Jun-96				<0.5	<5											<1		
		BC	Sep-96	<4	<2	232	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	Jun-97	<4	<2	275	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	240	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<10
		LBNL	Jun-99	<1	<2	222	<1	<1	5.4		<1	<1	<1	<0.2	<1	1.3	<2	<1	<1	5.5	7.3
	6-95-14	BC	Sep-95	<4	<10	170	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Sep-95	<20	<2	180	<2	<5	<10		<5	<10	<40	0.2	<10	<10	5	<5	<50	11	<10
	7B-95-21	BC	Sep-95	<4	3.6	<100	<10	<5	10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Sep-95	<20	4	10	<2	<5	10		<5	<10	<40	<0.2	<10	<10	<4	<5	<50	<5	<10
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
2	7B-95-21	LBNL	Jun-97	<4	<2	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<2	<10	<10
		LBNL	Jun-99	<1	<2	31.8	<1	<1	4.5		2.0	<1	<1	<0.2	2.1	1.4	<2	<1	<1	9.2	<5
	7-95-22	LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	34
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	<2	53	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	20
		LBNL	Jun-99	1.5	<2	95.4	<1	<1	9.9		18.9	1.6	<1	<0.2	5.4	4.6	<2	<1	<1	6.4	10.5
	7-95-23	BC	Sep-96	<4	9	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	Jun-97	<4	7.1	61	<4	<5	<5		<5	7.9	<5	<0.2	<50	<50	2.0	<5	<1	<5	<20
		LBNL	Jul-97	<4	5.9	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	2.2	<5	<1	<5	<20
		BC	Jun-98	<100	7.0	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<2	<10	<10
		LBNL	Jun-99	<1	6.0	13.4	<1	<1	8.6		31.3	2.7	<1	<0.2	3.4	3.0	2.9	<1	<1	5.6	<5
		BC	Jun-99	<1	<50	<100	<0.5	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	<10	<50
	7B-95-24	BC	Jan-96	<4	2.8	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	2	<10	<5	<10	<50
		AEN	Jan-96	<20	3	20	<10	<5	<10		<5	<10	<40	<0.2	10	<10	<4	<5	<50	7	<10
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	23
		LBNL	Jun-97	<4	<2	76	<4	<5	<5		<5	13.9	<5	1.75	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	<100	<10	<10	<10		<50	<10	<5	**2.3**	<50	<50	<2	<10	<2	20	11
		LBNL	Jun-99	<1	2.1	90.8	<1	<1	4.9		4.9	1.5	<1	<0.2	1.8	3.3	<2	<1	<1	22.6	<5
	7B-95-25	BC	Jan-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<10	<10	<50	<10	<50
		AEN	Jan-96	<20	40	<2	<5	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<50	7	<10
		LBNL	Jun-97	<4	<2	212	<4	<5	<5		<5	14.3	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	280	<10	<10	<10		<50	28	<5	<0.2	<50	<50	<2	<10	<1	<10	33
		LBNL	Jun-99	<1	<2	98.2	<1	<1	4.1		4.5	3.4	<1	<0.2	3.7	2.0	<2	<1	<1	9.0	<5
	53-96-1	LBNL	Jul-96	<4	<2	76	<4	<40	<50		<50	<50	<15	<0.2	<50	<50	<1	<50	<10	<50	<20
		BC	Jul-96	<4	2.8	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	12	<50
		LBNL	Jun-97	<4	<2	69	<4	<5	<5		5.5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	Sep-98	<1	<2	78.3	<1	<1	24.6		1.4	2.3	<1	<0.2	2.8	4.0	<2	<1	<1	33.6	<5

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
2	58-96-11	BC	Jan-97	<4	<2	168	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	16	<50
		CLS	Jan-97	<5	<10	170	<0.5	<5	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	19	28
		BC	Mar-97	<4	<2	130	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	13	<50
		CLS	Mar-97	<500	<50	<500	<50	<100	<500		<500	<500	<500	<5	<500	<500	<50	<500	<50	<500	<500
		LBNL	Jun-97	<4	<2	284	<4	<5	<5		<5	5.4	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	190	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<2	15	<10
		LBNL	Jun-99	<1	2.2	271	<1	<1	13.3		16.1	2.6	<1	<0.2	2.3	2.9	<2	<1	<1	24.4	<5
	7-00-4	LBNL	Jun-00	<1	103	43.5	<1	<1	4.3		<1	2.2	<1	<0.2	129	2.2	16.3	<1	<1	161	24.1
	OW7-102	LBNL	May-93	<10	<33.5	40	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	33	27
7	58-92-8	LBNL	Dec-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		64	<8	11	<0.9	<19	<6.7	<7.7
	46-92-9	LBNL	Jan-93	**20**	<33.5	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5		300	<61	7.1	<12.5	<98.5	<24.5	<16.5
	*	BC	Dec-93	<100	29	<100	<10	<5	<10		<10	18	<5	<0.2	315	<50	7	<10	<5	<50	<50
		BC	Feb-94	<100	20	20	<10	<10	<10		<50	10	<50	<2	470	<50	<10	<20	<100	10	20
		BC	Jun-95	4	27	<100	<10	<5	<10		<10	<10	<5	<0.2	360	<50	12	<10	<5	<50	<10
		LBNL	Mar-96	<50	41.6	<50	<5	<40	<50		<50	<50	<40	<0.2	415	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	28.3	68	<4	<5	<5		<5	<5	<5	<0.2	189	<50	34.8	<5	<1	<5	<20
		LBNL	Aug-98		31.9										357						
		LBNL	Aug-99		30.5										284		27.5				
	58-93-3	AEN	Jun-94	<20	2	210	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<100	14	<10
		BC	Jun-94	<100	<2	220	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	20	<10
		BC	May-95	<4	<2	240	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<10
		LBNL	Feb-96	<50	<2	114	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	46-93-12	BC	Oct-93	<100	<2	101	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	2	110	<2	<5	<10		<5	<10	<40	<0.3	<10	<10	<4	<5	<100	30	<5
		BC	Mar-94	<100	<2	140	<10	<10	<10		<50	10	<50	2	<50	<50	<2	<20	<100	30	<10
	58A-94-14	BC	Dec-94	<100	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	3	<10	<5	<50	<10
		AEN	Dec-94	<20	<2	80	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<100	5	30
		BC	Jun-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
7	58A-94-14	LBNL	Mar-96	<50	3.8	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	51-94-15	BC	Dec-94	<100	6	<100	<10	<5	<10		<10	<10	<5	<0.2	12	<50	3	<10	<5	<50	<10
		AEN	Dec-94	<20	5	<50	<2	<5	<10		<5	<10	<40	<0.2	10	10	<4	<5	<100	8	30
		BC	Jun-95	<4	3.4	<100	<100	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	6.1	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
	58-95-11	BC	Jun-95	<4	**76**	<100	<10	<5	<10		<10	<10	<5	<0.2	21	<50	<2	<10	<5	<50	<50
		AEN	Jun-95	<20	9	110	<2	<5	<10		<5	<10	<40	<0.2	40	<10	<4	<5	<50	6	<10
		LBNL	Feb-96	<50	<2	80	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	43
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97		<2																
		BC	Jun-98		<2																
		LBNL	May-99		2.1																
	58-95-18	BC	Sep-95	<4	<10	200	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Sep-95	<20	44	230	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	**62**	<5	<50	11	20
		LBNL	Feb-96	<50	<2	109	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	58-95-19	CLS	Jun-96				<0.5	<5											<1		
		BC	Sep-96	<4	7.7	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	3.4	<10	<1	<10	<50
		BC	Sep-96	<4	6.5	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	2.6	<10	<1	11	<50
		LBNL	Jun-97	<4	4.0	165	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	3.1	<5	<1	<5	<20
	58-95-20	LBNL	Mar-96	<50	15.6	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	51-96-3	LBNL	May-97	<4	<2	280	<4	<5	<5		<5	5.0	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	46-96-10	LBNL	Jun-97	<4	<2	168	<4	<5	<5		<5	9.0	<5	<0.2	<50	<50	3.1	<5	<1	<5	<20
		LBNL	Aug-97	<4	<2	185	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	3.2	<5	<1	9.3	<20
		BC	Aug-97	<4	<2	120	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	2	<10	<1	13	<50
		BC	May-98	<100	<2	155	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	14	<50
		LBNL	May-99	<1	<2	14.6	<1	<1	<1		<1	<1	<1	<0.2	<1	2.6	<2	<1	<1	1.3	<5

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	WELL NO.	LAB	DATE																		
7	58-96-12	BC	Jan-97	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	2	<10	<1	11	67
		CLS	Jan-97	<5	<10	78	<0.5	<5	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	12	48
		LBNL	Apr-97	<4	<2	119	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98	<100	<2	120	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<4	15	41
		LBNL	May-99	<1	<2	153	<1	<1	1.3		1.9	11.0	1.2	<0.2	1.2	2.3	<2	<1	<1	15.2	14.3
10	MW91-9	Q	Feb-92	<20	<20	350	<1	<5	<10		<5	<40	<20	<0.3	10	20	<20	<5	<100	<5	14
		LBNL	Dec-92	<2	<5.6	290	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	360	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Feb-94	<100	<10	340	<10	<10	<10		<50	<10	<50	<2	<50	<50	<10	<20	<100	<10	10
	MWP-8	LBNL	Nov-92	<2	<5.6	190	<0.7	<6.6	<0.4		<6.6	13	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	140	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	170	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
		BC	May-95	<4	<2	180	<10	<5	18		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	86	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	307	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	26-92-11	Q	Mar-92	<20	<2	260	<1	<5	<10		<5	<40	<20	<0.3	<10	<10	<4	<5	<100	<5	23
		LBNL	Dec-92	<2	<5.6	320	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	Jun-93	<10	<33.5	500	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<10	350	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
		BC	Mar-94	<100	<10	360	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
	5-93-10	BC	Oct-93	<100	<2	112	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	<2	130	<2	<5	<10		<5	<10	<40	<0.3	<10	<10	<4	<5	<100	8	<5
		BC	Mar-94	<100	<2	100	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
	52-93-14	LBNL	Jun-97	<4	<2	99	<4	<5	<5		<5	14.1	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	Jun-99	<1	3.5	104	<1	<1	14.3		<1	1.2	<1	<0.2	4.1	1.6	<2	<1	<1	29.9	17.1
	25-93-15	BC	Jan-94	<100	10	<100	<10	<5	<10		<10	<10	<5	<0.2	51	<50	2.8	<10	<5	<50	<10
		AEN	Jan-94	<20	12	50	<2	<5	<10		<5	<10	<40	<0.2	50	<10	5	<5	<100	6	<10
		BC	May-94	<500	6	73	<50	<50	<50		<250	<50	<250	<2	<250	<250	2	<100	<500	<50	<50
		BC	May-94	<500	6	76	<50	<50	<50		<250	<50	<250	<2	<250	<250	3	<100	<500	<50	<50

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	WELL NO.	LAB	DATE																		
10	52-94-10	BC	Dec-94	<100	3	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	3	<10	<5	<50	<10
		AEN	Dec-94	<20	<2	<50	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<100	9	10
		BC	Jun-95	<4	3.2	<100	<10	<5	<10		<10	<10	<5	<0.2	18	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	25-94-12	BC	Dec-94	<100	3	<100	<10	<5	<10		<10	<10	<5	<0.2	27	<50	3	<10	<5	<50	10
		AEN	Dec-94	<20	3	60	<2	<5	<10		<5	<10	<40	<0.2	30	<10	<4	<5	<100	<5	20
		BC	May-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	20	<50	<2	<10	<5	<50	<10
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		LBNL	Mar-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	16-94-13	BC	Dec-94	<100	9	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	3	<10	<5	<50	<10
		AEN	Dec-94	<20	12	50	<2	<5	<10		<5	<10	<40	<0.2	10	<10	<4	<5	<100	5	<10
		BC	May-95	<4	3.2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	63	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	<2	344	<4	<5	<5		12.6	<5	<5	<0.2	<50	<50	2.3	<5	<1	<5	<20
	52-95-2	BC	Oct-95	<4	<2	234	<10	<10	<10		<10	17	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBL	Oct-95	<30	<1	215	<10	<20	<10		<10	<10	<20	<1	<10	<30	<1	<10	<20	<10	<100
		LBNL	Mar-96	<50	<2	163	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	<2	258	<4	<5	<5		<5	9.3	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	16-95-3	BC	Jun-95	<4	<2	110	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	106	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	25A-95-4	BC	Jun-95	<4	23	<100	<10	<5	<10		<10	<10	<5	<0.2	12	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	37.6	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	19.7	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	WELL NO.	LAB	DATE																		
10	25A-95-4	BC	May-98		25																
		LBNL	Apr-99		31.7																
	25-95-5	BC	Sep-95	<4	<10	230	<10	<5	27		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Sep-95	<20	3	260	<2	<5	30		<5	<10	<40	<0.2	<10	<10	<4	<5	<50	22	20
		LBNL	Mar-96	<50	<2	340	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	348	<4	<5	<5		<5	<5	<5	<0.2	73	<50	<2	<5	<1	<5	<20
		BC	May-98						27												
		LBNL	May-99						21.5												
	25A-95-15	BC	Sep-95	<4	**51**	<100	<10	<5	40		<10	<10	<5	<0.2	14	<50	4	<10	<5	<50	<50
		AEN	Sep-95	<20	44	10	<2	<5	40		<5	<10	<40	<0.2	10	<10	<4	<5	<50	47	<10
		LBNL	Mar-96	<50	29.6	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	25.1	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	Jun-97	<4	27.8	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		BC	Jun-98		15				<10						<50						
		LBNL	Jun-99		13.5				3.2												
	25-95-26	BC	Jul-96	<4	<2	270	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	Jul-96	<4	<2	260	<4	<40	<50		<50	<50	<15	<0.2	<50	<50	<1	<50	<10	<50	<20
	25-95-27	BC	Jul-96	<4	3.1	<100	<10	<10	10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	Jul-96	<4	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	53	<50	<1	<50	<50	<50	26
		LBNL	Jun-97	<4	<2	88	<4	<5	<5		<5	5.2	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	4-96-2	BC	Aug-96	<100	27	<100	<10	<10	10		<50	<10	<5	<0.2	<50	<50	8.2	<10	<1	21	<50
		BC	Aug-96	<4	30	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	8.0	<10	<1	15	<50
		LBNL	May-97	<4	10.4	65	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	May-98	<1	35.8	6.2	<1	<1	3.5		<1	1.4	<1	<0.2	64.9	<1	7.4	<1	<1	13.1	<5
		LBNL	Apr-99	<1	34.1	5.7	<1	<1	3.0		<1	1.7	<1	<0.2	25.5	1.1	6.7	<1	<1	19.5	<5
	25A-98-1	LBNL	Jul-98	<1	7.5	150	<1	<1	4.9		<1	2.1	<1	<0.2	3.5	6	<2	<1	<1	15.8	5.5
		BC	Jul-98	<100	8.0	158	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
10	25A-98-3	LBNL	Jun-98	<1	2.8	29.7	<1	<1	6.0		<1	2.6	<1	<0.2	3.2	3.5	4.6	<1	<1	14.8	7.4
		BC	Jun-98	<100	2.2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	3.4	<10	<1	<10	<50
	25A-98-7	LBNL	Dec-99	<1	2.7	138	<1	<1	<5		<1	3.2	<1	<0.2	2.4	3.2	<2	<1	<1	4.7	<5
		BC	Dec-99	<4	<2	150	<0.2	<1	<10		<50	<10	<5	<0.2	<50	<10	<2	<10	<1	<10	<10
	52A-98-8B	LBNL	Jul-99	<1	3.3	228	<1	<1	12.9		2.5	2.1	<1	<0.2	6.0	18.2	<2	<1	<1	9.3	8.7
		BC	Jul-99	<1	<50	250	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	<10	<10
	52-98-9	LBNL	Jul-99	1.9	2.8	132	<1	<1	9.5		<1	11.4	1.7	<0.2	1.5	6.4	<2	<1	<1	23.4	12.7
		BC	Jul-99	<1	<50	150	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	18	11
	25-98-10	LBNL	Oct-99	2.5	<2	420	<1	<1	35.5		<1	2.6	<1	<0.2	1.3	1.9	<2	<1	<1	33.3	5.1
		BC	Oct-99	<4	2.0	410	<0.2	<1	25.0		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	24.0	<50
	25A-99-2	LBNL	Jul-99	<1	3.4	149	<1	<1	12.4		<1	6.6	<1	<0.2	2.0	3.4	<2	<1	<1	19.5	10.2
		BC	Jul-99	<1	<50	130	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	10	10
	25A-99-5	LBNL	Sep-99	<1	6.5	20.9	<1	<1	2.3		<1	6.0	<1	<0.2	2.6	2.7	<2	<1	<1	6.2	7.9
		BC	Sep-99	<4	6.0	<100	<0.2	<1	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	10	<50
14	MWP-4	LBNL	Nov-92	<2	<5.6	78	<0.7	<6.6	<0.4		<6.6	4.8	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	40	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	30	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	Jun-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	MWP-5	LBNL	Nov-92	<2	<5.6	41	<0.7	<6.6	<0.4		<6.6	1.9	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	43	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	2	40	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	Jun-95	<4	2.4	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	WELL NO.	LAB	DATE																		
14	MWP-6	LBNL	Nov-92	<2	<5.6	64	<0.7	<6.6	<0.4		<6.6	4.3	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	56	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<1	54	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<1	<20	<100	<10	<10
		BC	May-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	70	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	MWP-7	LBNL	Nov-92	<2	<5.6	160	<0.7	<6.6	<0.4		<6.6	7.1	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	140	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	May-95	<4	<2	130	<10	<5	13		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	56	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	164	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	37-92-5	C	Apr-92	<20	20	<5	<1	<1	<10		<10	10	<20	<1	20	<20	<10	<5	<10	<10	20
		LBNL	Dec-92	<2	<5.6	10	<0.7	<6.6	5.4		<6.6	6.7	<6.2		<12.2	<8	1.3	<0.9	<19	<6.7	102
		LBNL	Jun-93	<10	<33.5	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	1.9	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	35	<10	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		LBNL	May-97		37.3																
		LBNL	May-98		18.9																
		LBNL	May-99		29.8																
	37-92-6	Q	Mar-92	<20	5	140	<1	<5	<10		<5	170	<20	<0.3	<10	<10	9	<5	<100	<4	170
		LBNL	Dec-92	<2	<5.6	220	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	Jun-93	<10	<33.5	270	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
	6-92-17	C	Sep-92	<20	<5	30	<1	<1	<10		<10	<5	<10	<1	<5	<20	<10	<5	<10	20	<5
		LBNL	Sep-92	<150	<60	<70	<10	<70	<10		<70	<10	<60		<120	<60	<0.2	<10	<190	<70	<10
		LBNL	Jan-93	<10	<33.5	62	<4.5	<9	<7		<20.5	<5.5	<43.5		<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	May-93	<10	<33.5	70	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	70	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	20	<10
	37-92-18	LBNL	Jan-93	<10	<33.5	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5		320	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	50	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	5.3	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	50	<10	<10	<10		<50	<10	<50	<0.2	80	<50	<2	<20	<100	<10	<10

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
14	37-92-18A	LBNL	Jan-93	<10	**68**	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5		140	<61	5.4	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	**97**	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	4	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	46	10	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
		BC	Jun-95	**11**	**87**	<100	<10	<5	<10		<10	<10	<5	<0.2	58	<50	3.6	<10	<5	<50	<50
		AEN	Jun-95	<20	**120**	20	<2	<5	<10		<5	<10	<40	<0.2	60	<10	6	<5	<50	11	<10
		LBNL	Mar-96	<50	**93.7**	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	25
		BC	Mar-96	**7**	**75**	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	3	<10	<50	<10	<50
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97		**123**																
		BC	May-97		**97**																
		LBNL	May-98		**82.6**																
		LBNL	Aug-99		**60.5**																
	37-93-5	BC	Oct-93	<100	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	13	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	4	<50	<2	<5	<10		<5	<10	<40	<0.3	10	<10	<4	<5	<100	<5	<5
		BC	Mar-94	<100	2	20	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
	37-94-9	BC	Jun-94	<500	<2	60	<50	<50	<50		<250	<50	<250	<2	<250	<250	<2	<100	<500	<50	<50
		BC	May-95	<4	<2	110	<10	**6**	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	2.1	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
OS	CD-92-28	LBNL	Jan-93	<10	<33.5	190	<4.5	<9	<7		<20.5	<5.5	<43.5		23	<61	<1	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	400	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<10	360	<10	<10	<10		<10	<10	<50	0.3	<50	<50	<10	<10	<100	<10	<10
		BC	Mar-94	<100	<10	310	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
		BC	May-95	<4	3.2	360	<10	<5	10		<10	<10	<5	<0.2	12	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	<2	427	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	920	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	May-98	<1	<2	55.9	<1	<1	3.3		<1	<1	<1	<0.2	<1	<1	<2	<1	<1	1.6	12.7
		LBNL	Apr-99	1.4	3.0	927	<1	<1	<1		<1	<1	<1	<0.2	9.8	1.6	<2	<1	<1	2.2	6.3

Table B4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(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
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
Temporary Wells and Borings																					
2	SB7BPL-96-11	BC	Sep-96	<4	<2	<100	<10	<10	<10	<2	<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		CLS	Nov-96	<100	<5	<50	<10	<10	<50		<50	<50	<100	<0.5	<50	<100	<5	<50	<10	<50	<50
		BC	Dec-96	<4	<2	<100	<10	<10	11		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	13	<50
		BC	Dec-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		BC	Dec-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	Dec-97	<1	<2	25.2	<1	<1	<5		<5	<1	<1	<0.2	<5	<5	<2	<1	<1	4.1	<5

MCL: Maximum contaminant level for drinking water (determined by California DTSC)
(a): secondary MCL
(b): action level
NS: Not Specified
* = Grab sample

<	= not detected
40	= concentration above MCL
	= not analyzed

AEN = Analysis by American Environmental Network
C = Analysis by Chromalab
CLS = Analysis by California Laboratory Services
LBNL = Analysis by Lawrence Berkeley National Laboratory
Q = Analysis by Quanteq

Table B4.5-1
Surface Water Sampling Results
Organics
(Concentrations in µg/L)

Location	Date	Lab	VOCs 8260	SVOCs 625/8270
North Fork Strawberry Creek	Feb-93	LBNL	ND	
	Feb-93*	LBNL	ND	
	Apr-93	LBNL	ND	
	Aug-93	LBNL	ND ND (D)	
		C		ND ND (D)
	Mar-94	LBNL	ND	
	Jul-94	LBNL	ND	
		BC	ND (D)	ND
	Jan-95	BC	ND	
	May-95**	BC	1,1,1-TCA=0.95 1,1,1-TCA=0.91 (D)	
	Jul-95	LBNL	ND	
	Dec-95**	LBNL	ND	
	Jan-96	LBNL	ND	
	Apr-96#	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-98	LBNL	ND	
		BC		Diethyl phthalate=2.2
	Jul-98	BC		ND
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
	Mar-00**	LBNL	ND	
Cafeteria Creek	Mar-94	LBNL	ND	
	Jan-95	BC	ND	
	Jan-96	LBNL	ND	
	Apr-96#	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
Chicken Creek	Jan-93	LBNL	ND	
	Aug-93	LBNL	ND	
		C		ND
	Mar-94	LBNL	ND	
	Jul-94	LBNL	ND	
	Jan-95	BC	ND	
	Jul-95	LBNL	ND	
	Jan-96	LBNL	ND	
	Apr-96#	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
Ravine Creek	Mar-94	LBNL	ND	
	Jan-95	BC	ND	
	Jul-95	LBNL	ND	
	Jan-96	LBNL	ND	
	Apr-96	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
Ten Inch Creek	Jul-95	LBNL	ND	
	Apr-96#	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	

ND = Not detected above reporting limit (reporting limit varies with analyte)
= Not analyzed

- All April 1996 creek samples missed holding times for 8260 analysis (D) = Duplicate sample
* - Sample taken at UC Women's Faculty Club
** - Sample taken at Erosion Control Basin

Table B4.5-2
Sediment Sampling Results
Organics
(Concentrations in mg/kg)

Location	Sample ID	Date	Lab	VOCs 8260	SVOCs 8270	TPH-Diesel 3550	TPH-Gas 5030	PAH 8310	PCBs 8080	Pesticides & PCBs 8080
No. Fork Strawberry Creek	SSBC-1A/2A-0.4	Apr-93	Q	ND*	ND	49**	<0.2			
	SSBC-3A/4A-0.8			Toluene 0.013*	ND	<5**	<0.2			
	SS-NFStraw-96-1A-0	Aug-96	BC		ND					
	SS-NFStraw-96-2A-0				ND					
	SS-NFStraw-96-3A-0				ND					
	SS-NFStraw-96-4A-0				ND					
	SS-NFStraw-96-5A-0				ND					
	SS-Nfstraw-98-1-0.0	Jan-98	BC						<0.02	
	SS-Nfstraw-98-2-0.0								<0.02	
	SS-Nfstraw-98-3-0.0								<0.02	
Chicken Creek	SSCH-1A/2A-0.2	Apr-93	Q	ND*	ND	63**	<0.2			
	SS-Chick-96-1A-0	Aug-96	BC	ND	ND					
	SS-Chick-96-2A-0			ND	ND					
	SS-Chick-96-3A-0			ND	ND					
	SS-Chick-96-4A-0			p-Isopropyltoluene=0.0058	ND					
	SS-Chick-96-5A-0			ND	ND					
	SS-Ckn-98-1-0.0	Jan-98	BC					ND	<0.02	
	SS-Ckn-98-2-0.0							Benzo(a)pyrene=0.075 Chrysene=0.028	<0.02	
	SS-Ckn-98-2A-0.0	Feb-98						ND	PCB 1254=0.014	
	SS-Ckn-98-3-0.0	Jan-98						ND	<0.02	
	SS-Ckn-98-4-0.0	Feb-98						ND	<0.01	
	SS-Ckn-98-5-0	Jun-98	BC							<0.003^
	SS-Ckn-98-6-0									<0.003^
	SS-Ckn-98-7-0									<0.003^
Ten Inch Creek	SS-Ten In-96-1A-0	Aug-96	BC		ND					
	SS-Ten In-96-2A-0				ND					
	SS-Ten In-96-3A-0				ND					
	SS-Ten In-96-4A-0				ND					
	SS-Ten In-96-5A-0				ND					

BC = Analysis by BC Laboratories
LBNL = Analysis by LBNL Radiological Laboratory
Q = Analysis by Quanteq

= Not analyzed
ND = Not detected above reporting limit
< = Not detected above reporting limit (reporting limit shown)

* = Analyzed by EPA Method 8240
** = Oil detected

^ - 8080 analysis only included Aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin

Table B4.5-3
Surface Water Sampling Results
Metals
(All Concentrations in µg/L)

			Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
		MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
LOCATION	**LAB**	**DATE**																		
North Fork Strawberry Creek	C	Aug-93	<20	<5	96	<1	<1	<10		<10	<5	<10	<1	15	<20	<10	7	<10	<10	93
			<20	<5	45	<1	<1	<10		<10	<5	<10	<1	<5	<20	<10	<5	<10	40	8
	BC	Jul-94	<100	<2	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
			<100	2	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
	BC	Jul-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
	BC	Jan-96	<4	2.4	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
	LBNL	Apr-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Apr-97	<4	<2	104	<4	<5	<5		<5	<5	<5	<0.20	<50	<50	<2	<5	<1	<5	<20
	LBNL	Jan-98	<1	<2	40.2	<1	<1	<5		<5	2.3	<1	<0.10	<5	<5	<2	<1	<1	4.3	8.8
	LBNL	Apr-98	<1	<2	48.7	<1	<1	1.0		<1	1.9	2.9	<0.20	1.4	<1	5.2	<1	<1	5.1	6.9
	LBNL	Apr-99	<1	4.2	76.9	<1	<1	8.6		<1	1.2	<1	<0.25	2.5	<1	4.5	<1	<1	15.9	9.3
	BC	Jul-99							4.2											
Erosion Control Basin >	BC	Jul-99							<2											
	LBNL	Jan-00	<1	<2	41.0	<1	<1	2.5		<1	4.6	<1	<0.10	1.6	1.5	<2	<1	<1	5.4	51.6
	BC	Jan-00							<2											
Chicken Creek	C	Aug-93	<20	<5	72	<1	<1	<10		<10	6.0	<10	<1	<5	<20	<10	<5	<10	<10	<5
	BC	Jul-94	<100	3.0	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
	BC	Aug-95	<4	<2	110	<10	<5	<10		<10	<10	<1	<0.20	<10	<50	<2	<10	<5	<50	<10
	BC	Jan-96	<4	4.0	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	<50
			<4	4.2	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	65
	LBNL	Apr-96	<50	3.4	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	22
	LBNL	Apr-97	<4	2.6	118	<4	<5	<5		<5	<5	<5	<0.20	<50	<50	2.6	<5	<1	<50	<20
	LBNL	Jan-98	<1	<2	55.8	<1	<1	<5		<5	4.2	<1	<0.10	<5	<5	<2	<1	<1	3.7	18.9
	LBNL	Apr-99	<1	3.4	109	<1	<1	8.9		<1	3.4	<1	<0.25	1.6	1.6	7.6	<1	<1	23.1	16.4
	LBNL	Jan-00	<1	<2	68.9	<1	<1	1.6		<1	2.9	<1	<0.20	1.5	<1	<2	<1	<1	21.6	11.9

Table B4.5-3 (Cont'd)
Surface Water Sampling Results
Metals
(All Concentrations in µg/L)

			Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
		MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
LOCATION	**LAB**	**DATE**																		
Cafeteria Creek	BC	Jan-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	50
	LBNL	Apr-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Apr-97	<4	<2	121	<4	<5	6.3		<5	<5	<5	<0.20	<50	<50	<2	<5	<1	<5	<20
	LBNL	Jan-98	<1	<2	35.7	<1	<1	<5		<5	2.2	<1	<0.10	<5	<5	<2	<1	<1	1.1	7.6
	LBNL	Apr-99	<1	<2	89.3	<1	<1	7.4		<1	1.9	<1	<0.25	2.5	3.7	2.9	<1	<1	1.9	11.7
	LBNL	Jan-00	<1	<2	22.1	<1	<1	1.9		<1	3.5	<1	<0.20	1.1	<1	<2	<1	<1	<1	27.8
Ravine Creek	BC	Aug-95	<4	<2	105	<10	<5	<10		<10	<10	<5	<0.20	32	<50	<2	<10	<5	<50	<10
	BC	Jan-96	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	<50
	LBNL	Apr-96	<50	2.1	57	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Apr-97	<4	<2	167	<4	<5	<5		<5	<5	<5	<0.20	<50	<50	<2	<5	<1	<5	<20
	LBNL	Jan-98	<1	<2	31.1	<1	<1	<5		<5	2.1	<1	<0.10	<5	<5	<2	<1	<1	<1	15.6
	LBNL	Apr-99	<1	<2	88.6	<1	<1	9.0		<1	1.2	<1	<0.25	5.0	<1	3.7	<1	<1	2.3	<5
	LBNL	Jan-00	<1	<2	49.6	<1	<1	2.5		<1	1.7	<1	<0.20	4.8	<1	<2	<1	<1	1.4	16.0
Ten Inch Creek	BC	Aug-95	<4	<2	110	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	66
	LBNL	Apr-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Jan-98	<1	<2	41.3	<1	<1	<5		<5	2.3	<1	<0.10	<5	<5	<2	<1	<1	1.4	7.7
	LBNL	Apr-99	<1	<2	88.6	<1	<1	8.1		<1	1.9	<1	<0.25	<1	1.3	5.3	<1	<1	2.9	<5
	LBNL	Jan-00	<1	<2	61.2	<1	<1	<1		<1	4.3	<1	<0.20	<1	1.5	<2	<1	<1	1.8	<5

MCL: Maximum contaminant level for drinking water (determined by California DTSC)
BC = Analysis by BC Laboratories
C = Analysis by Chromalab
LBNL: Analysis by Lawrence Berkeley National Laboratory

(a): secondary MCL
(b): action level
NS: Not Specified

< = Not detected above quantitation limit
= Not analyzed

Table B4.5-4
Sediment Sampling Results
Metals
(Concentrations in mg/kg)

Location	Sample ID	Date	Lab	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	Vn	Zn
North Fork Strawberry Creek	SSBC-1/2A-0.4	Apr-93	Q	<2	3	140	<0.2	0.6	59		8.9	47	180	0.3	0.6	32	<2	3.5	<3	28	160
	SSBC-3/4A-0.5	Apr-93	Q	<2	5	79	<0.2	0.6	45		11	40	53	0.6	<0.6	38	<2	<0.2	<3	35	160
	SS-ERBAS-N-L-1-0	Jan-95	BC											<0.2							
	SS-ERBAS-N-U-1-0													<0.2							
	SS-ERBAS-S-U-1-0													<0.2							
	SS-ERBAS-S-L-1-0													<0.2							
	SS-ERBAS-S-U-2-0	Jul-95	BC	<5	2.6	334	<0.5	<0.5	36		6.8	28	17	<0.2	<2.5	26	<0.5	<1	5.4	31	130
	SS-ERBAS-S-U-3-0			<5	1.9	93	<0.5	0.57	42		6.5	38	73	<0.2	<2.5	29	<0.5	<1	<5	32	259
	SS-ERBAS-S-U-4-0			<5	2.0	52	<0.5	0.5	33		8.0	55	45	0.22	<2.5	27	<0.5	<1	<5	29	182
	SS-ERBAS-S-U-5-0			<5	2.5	47	<0.5	<0.5	79	<1	6.8	216	69	<0.2	<2.5	27	<0.5	<1	<5	32	314
	SS-Nfstraw-96-1A-0	Aug-96	BC	<10	3.5	98	<1	<1	129		7.1	19	17	<0.2	15	105	1.0	<2	<10	37	109
	SS-Nfstraw-96-2A-0			<10	4.7	83	<1	1.2	43		8.7	30	49	<0.2	<5	27	1.6	<2	<10	53	108
	SS-Nfstraw-96-3A-0			<10	9.2	1300	<1	2.5	21		13	44	21	<0.2	<5	181	2.6	<2	<10	48	148
	SS-Nfstraw-96-4A-0			<10	4.1	78	<1	<1	31		6.1	18	20	<0.2	<5	20	1.1	<2	<10	37	115
	SS-Nfstraw-96-5A-0			<10	4.2	81	<1	<1	29		7.3	26	19	<0.2	<5	22	1.0	<2	<10	49	144
North Fork Strawberry Creek Boundary/Fence Line	SS-NFStraw-FL-99-1-0	Jul-99	BC							<0.1											
North Fork Strawberry Creek Erosion Control Basin	SS-NFStraw-BSN-99-1-0									<0.1											
Chicken Creek	SSCH-1/2A-0.2	Apr-93	Q	<2	2	83	<0.2	0.5	45		9.1	34	35	0.2	<0.6	43	<2	0.5	<3	28	150
	SS-Chick-96-1A-0	Aug-96	BC	<10	2.5	71	<1	<1	47		11	22	9.3	<0.2	<5	42	1.2	<2	<10	46	94
	SS-Chick-96-2A-0			<10	3.6	145	<1	<1	44		19	19	14	<0.2	<5	59	1.2	<2	<10	48	97
	SS-Chick-96-3A-0			<10	3.1	84	<1	<1	30		12	22	15	0.21	<5	37	<1	<2	<10	41	114
	SS-Chick-96-4A-0			<10	5.7	134	<1	2.2	58		14	69	38	<0.2	<5	55	1.5	<2	<10	49	257
	SS-Chick-96-5A-0			<10	5.0	116	<1	1.4	52		14	35	58	<0.2	<5	54	1.2	<2	<10	58	149
Cafeteria Creek	SS-Cafe-96-1A-0	Aug-96	BC	<10	11	87	<1	1.4	68		19	45	35	<0.2	<5	46	1.5	<2	<10	54	235
	SS-Cafe-96-2A-0			<10	11	146	<1	13	53		15	54	29	<0.2	<5	41	1.7	<2	<10	49	186
	SS-Cafe-98-1-0.0	Jan-98	BC					<1													
	SS-Cafe-98-2-0.0							<1													
	SS-Cafe-98-3-0.0							<1													
	SS-Cafe-98-4-0.0							<1													

Table B4.5-4 (Cont'd)
Sediment Sampling Results
Metals
(Concentrations in mg/kg)

Location	Sample ID	Date	Lab	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	Vn	Zn
Ravine Creek	SS-Rav-96-1A-0	Aug-96	BC	<10	8.5	138	<1	<1	56		11	49	34	<0.2	<5	38	1.6	<2	<10	39	127
	SS-Rav-96-2A-0			<10	9.3	155	<1	1.1	69		13	44	40	<0.2	<5	44	1.6	2.1	<10	48	131
	SS-Rav-96-3A-0			<10	10	168	<1	1.0	52		12	47	25	<0.2	<5	42	1.7	<2	<10	46	113
	SS-Rav-96-4A-0			<10	11	221	<1	1.1	66		13	43	57	<0.2	<5	48	1.8	<2	<10	47	127
	SS-Rav-96-5A-0			<10	12	136	<1	<1	44		12	40	24	<0.2	<5	41	1.6	<2	<10	46	110
Ten Inch Creek	SS-Ten In-96-1A-0	Aug-96	BC	<10	5.1	103	<1	<1	41		10	37	22	<0.2	<5	37	1.5	<2	<10	38	81
	SS-Ten In-96-2A-0			<10	8.0	131	<1	<1	41		10	38	44	<0.2	<5	41	1.5	<2	<10	43	89
	SS-Ten In-96-3A-0			<10	8.0	156	<1	<1	35		13	37	31	<0.2	<5	43	1.6	<2	<10	44	92
	SS-Ten In-96-4A-0			<10	9.3	154	<1	<1	37		11	37	39	<0.2	<5	42	1.9	<2	<10	41	93
	SS-Ten In-96-5A-0			<10	7.9	119	<1	<1	32		8.5	35	23	<0.2	<5	33	1.3	<2	<10	37	78

BC = Analysis by BC Laboratories
Q = Analysis by Quanteq

< = Not detected above reporting limit
= Not analyzed