

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994–2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-01PT	11/29/1994	<5	0.7	76	--	231
FSW 343-M01-02GNT	11/29/1994	<5	<0.7	101	--	133
FSW 343-M01-03RT	11/29/1994	<5	<0.7	14	--	117
FSW 343-M01-04BUT	11/29/1994	<5	<0.7	25	--	123
FSW 343-M01-05BKT	11/29/1994	61	<0.7	10	--	50
FSW 343-M01-06WT	11/29/1994	42	<0.7	8	--	137
FSW 343-M01-06WT-D	11/29/1994	42	<0.7	8	--	138
FSW 343-M01-07O	11/29/1994	37	<0.7	9	--	137
FSW 343-M01-08GY	11/29/1994	52	<0.7	9	--	76
FSW 343-M01-09Y	11/29/1994	43	<0.7	7	--	95
FSW 343-M01-10P	11/29/1994	56	<0.7	14	--	118
FSW 343-M01-11GN	11/29/1994	57	<0.7	14	--	109
FSW 343-M01-12R	11/29/1994	54	<0.7	9	--	119
FSW 343-M01-13BU	11/29/1994	50	<0.7	8	--	139
FSW 343-M01-14BK	11/29/1994	48	<0.7	9	--	133
FSW 343-M01-15W	11/29/1994	55	<0.7	8	--	150
FSW 343-M02-01PT	11/29/1994	1252	0.7	17	--	263
FSW 343-M02-02GNT	11/29/1994	1275	7.1	9	--	272
FSW 343-M02-03RT	11/29/1994	1413	8.6	18	--	297
FSW 343-M02-04BUT	11/29/1994	729	2.9	9	--	276
FSW 343-M02-05BKT	11/29/1994	442	<0.7	66	--	287
FSW 343-M02-06WT	11/29/1994	683	<0.7	23	--	303
FSW 343-M02-07O	11/29/1994	698	35.0	9	--	308
FSW 343-M02-07O-D	11/29/1994	706	35.7	10	--	303
FSW 343-M02-08GY	11/29/1994	<5	0.7	49	--	279
FSW 343-M02-09Y	11/29/1994	<5	<0.7	108	--	281
FSW 343-M02-10P	11/29/1994	<5	<0.7	94	--	261
FSW 343-M02-11GN	11/29/1994	<5	<0.7	79	--	258
FSW 343-M02-12R	11/29/1994	<5	<0.7	41	--	259
FSW 343-M02-13BU	11/29/1994	<5	<0.7	31	--	185
FSW 343-M02-14BK	11/29/1994	<5	<0.7	74	--	179
FSW 343-M02-15W	11/29/1994	<5	<0.7	46	--	95
FSW 343-M03-01PT (1-19)	11/29/1994	--	--	--	--	--
FSW 343-M03-02GNT (1-19)	11/29/1994	5	<0.7	14	--	70
FSW 343-M03-03RT (1-19)	11/29/1994	73	<0.7	12	--	57

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-04BUT (1-19)	11/29/1994	264	<0.7	6	--	117
FSW 343-M03-05BKT (1-19)	11/29/1994	445	<0.7	8	--	167
FSW 343-M03-06WT (1-19)	11/29/1994	482	<0.7	12	--	192
FSW 343-M03-07O (1-19)	11/29/1994	550	<0.7	78	--	194
FSW 343-M03-08GY (1-19)	11/29/1994	613	<0.7	36	--	206
FSW 343-M03-09Y (1-19)	11/29/1994	584	<0.7	9	--	216
FSW 343-M03-09Y (1-19)-D	11/29/1994	564	<0.7	9	--	217
FSW 343-M03-10P (1-19)	11/29/1994	771	<0.7	9	--	239
FSW 343-M03-11GN (1-19)	11/29/1994	1167	<0.7	10	--	257
FSW 343-M03-12R (1-19)	11/29/1994	959	0.7	11	--	280
FSW 343-M03-13BU (1-19)	11/29/1994	577	4.3	10	--	288
FSW 343-M03-14BK (1-19)	11/29/1994	921	3.6	11	--	286
FSW 343-M03-15W (1-19)	11/29/1994	1436	3.6	11	--	279
FSW 343-M01-01PT	6/18/1996	<5	<0.7	28	1213	187
FSW 343-M01-02GNT	6/18/1996	<5	<0.7	24	1446	212
FSW 343-M01-03RT	6/18/1996	34	2.2	13	873	134
FSW 343-M01-04BUT	6/18/1996	168	7.3	10	697	109
FSW 343-M01-05BKT	6/18/1996	105	1.3	<5	621	115
FSW 343-M01-06WT	6/18/1996	119	<0.7	<5	568	70
FSW 343-M01-07O	6/18/1996	53	<0.7	6	850	113
FSW 343-M01-08GY	6/18/1996	32	<0.7	4	554	138
FSW 343-M01-08GY-D	6/18/1996	37	<0.7	10	645	163
FSW 343-M01-09Y	6/18/1996	36	<0.7	17	311	194
FSW 343-M01-10P	6/18/1996	45	<0.7	13	160	133
FSW 343-M01-11GN	6/18/1996	53	<0.7	6	138	109
FSW 343-M01-12R	6/18/1996	164	<0.7	7	164	152
FSW 343-M01-14BK	6/18/1996	54	<0.7	23	159	137
FSW 343-M01-15W	6/18/1996	66	<0.7	<5	182	181
FSW 343-M02-01PT	6/17/1996	1119	2.4	11	1040	244
FSW 343-M02-02GNT	6/17/1996	1526	5.9	14	1519	293
FSW 343-M02-02GNT-D	6/17/1996	1541	5.9	24	1494	287
FSW 343-M02-03RT	6/17/1996	1534	11.1	16	1535	294
FSW 343-M02-04BUT	6/18/1996	963	2.3	10	1374	285
FSW 343-M02-05BKT	6/18/1996	931	5.9	12	1186	264
FSW 343-M02-06WT	6/18/1996	1007	<0.7	37	1463	298

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M02-07O	6/18/1996	818	<0.7	52	1628	302
FSW 343-M02-08GY	6/18/1996	597	50.8	18	1412	307
FSW 343-M02-09Y	6/18/1996	<5	0.9	39	1490	304
FSW 343-M02-10P	6/18/1996	<5	<0.7	47	1382	293
FSW 343-M02-11GN	6/18/1996	<5	<0.7	38	1133	259
FSW 343-M02-11GN-D	6/18/1996	<5	<0.7	40	1075	251
FSW 343-M02-12R	6/18/1996	<5	<0.7	23	1238	244
FSW 343-M02-13BU	6/18/1996	<5	<0.7	25	1593	296
FSW 343-M02-14BK	6/18/1996	<5	<0.7	28	971	203
FSW 343-M02-15W	6/18/1996	<5	<0.7	19	1464	273
FSW 343-M03-01PT (1-19)	6/17/1996	<5	<0.7	<5	269	64
FSW 343-M03-02GNT (1-19)	6/17/1996	<5	<0.7	<5	226	65
FSW 343-M03-03RT (1-19)	6/17/1996	<5	<0.7	18	308	63
FSW 343-M03-04BUT (1-19)	6/17/1996	84	<0.7	10	375	83
FSW 343-M03-05BKT (1-19)	6/17/1996	214	<0.7	<5	392	103
FSW 343-M03-05BKT (1-19)-D	6/17/1996	211	<0.7	<5	388	102
FSW 343-M03-06WT (1-19)	6/17/1996	420	<0.7	<5	518	145
FSW 343-M03-07O (1-19)	6/17/1996	530	<0.7	8	567	147
FSW 343-M03-08GY (1-19)	6/17/1996	807	<0.7	20	733	221
FSW 343-M03-09Y (1-19)	6/17/1996	1445	<0.7	11	1422	288
FSW 343-M03-10P (1-19)	6/17/1996	1576	1.6	15	1559	301
FSW 343-M03-11GN (1-19)	6/17/1996	1587	2.6	15	1568	327
FSW 343-M03-12R (1-19)	6/17/1996	324	0.8	<5	312	92
FSW 343-M03-13BU (1-19)	6/17/1996	1180	3.3	12	1097	278
FSW 343-M03-14BK (1-19)	6/17/1996	1206	5.8	10	1201	271
FSW 343-M03-14BK (1-19)-D	6/17/1996	1532	5.3	7	1515	297
FSW 343-M03-15W (1-19)	6/17/1996	1482	6.7	17	1547	297
FSW 343-M01-01PT	11/18/1996	<5	<0.7	<5	1216	301
FSW 343-M01-02GNT	11/18/1996	<5	<0.7	<5	1228	267
FSW 343-M01-03RT	11/18/1996	374	28.1	<5	1095	222
FSW 343-M01-04BUT	11/18/1996	233	18.3	<5	869	143
FSW 343-M01-04BUT-D	11/18/1996	241	18.3	<5	888	151
FSW 343-M01-05BKT	11/18/1996	356	<0.7	<5	976	194
FSW 343-M01-06WT	11/18/1996	120	<0.7	<5	677	49
FSW 343-M01-07O	11/18/1996	68	<0.7	<5	727	64

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-08GY	11/18/1996	163	<0.7	<5	250	38
FSW 343-M01-09Y	11/18/1996	108	<0.7	<5	166	42
FSW 343-M01-10P	11/18/1996	109	<0.7	5	157	48
FSW 343-M01-11GN	11/18/1996	107	<0.7	<5	143	54
FSW 343-M01-12R	11/18/1996	136	<0.7	<5	165	55
FSW 343-M01-14BK	11/18/1996	152	<0.7	<5	194	55
FSW 343-M01-14BK-D	11/18/1996	154	<0.7	<5	183	53
FSW 343-M01-15W	11/18/1996	63	<0.7	<5	180	63
FSW 343-M02-01PT	11/18/1996	1141	3.2	<5	1264	258
FSW 343-M02-02GNT	11/18/1996	1216	4.1	<5	1543	292
FSW 343-M02-03RT	11/18/1996	1320	3.1	<5	1588	276
FSW 343-M02-04BUT	11/18/1996	1020	<0.7	196	1341	261
FSW 343-M02-05BKT	11/18/1996	890	1.1	<5	1565	262
FSW 343-M02-06WT	11/18/1996	877	18.6	<5	1618	277
FSW 343-M02-07O	11/18/1996	377	54.3	<5	1567	299
FSW 343-M02-07O-D	11/18/1996	376	54.0	<5	1601	299
FSW 343-M02-08GY	11/18/1996	<5	28.3	<5	1490	289
FSW 343-M02-09Y	11/18/1996	<5	<0.7	<5	1590	296
FSW 343-M02-10P	11/18/1996	<5	<0.7	40	1412	303
FSW 343-M02-11GN	11/18/1996	<5	<0.7	<5	1390	288
FSW 343-M02-12R	11/18/1996	<5	<0.7	<5	1382	256
FSW 343-M02-13BU	11/18/1996	<5	<0.7	<5	1038	254
FSW 343-M02-14BK	11/18/1996	<5	<0.7	<5	1149	247
FSW 343-M02-15W	11/18/1996	<5	<0.7	<5	1048	217
FSW 343-M03-01PT (1-19)	11/18/1996	<5	<0.7	<5	228	60
FSW 343-M03-01PT (1-19)-D	11/18/1996	<5	<0.7	<5	232	61
FSW 343-M03-02GNT (1-19)	11/18/1996	<5	<0.7	<5	269	71
FSW 343-M03-03RT (1-19)	11/18/1996	<5	<0.7	<5	233	72
FSW 343-M03-04BUT (1-19)	11/18/1996	<5	<0.7	<5	365	71
FSW 343-M03-05BKT (1-19)	11/18/1996	19	<0.7	<5	316	72
FSW 343-M03-06WT (1-19)	11/18/1996	50	<0.7	<5	269	80
FSW 343-M03-07O (1-19)	11/18/1996	91	<0.7	<5	246	85
FSW 343-M03-08GY (1-19)	11/18/1996	207	<0.7	6	286	103
FSW 343-M03-09Y (1-19)	11/18/1996	419	0.9	<5	448	144
FSW 343-M03-10P (1-19)	11/18/1996	728	4.0	<5	752	208

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-10P (1-19)-D	11/18/1996	735	4.0	<5	754	207
FSW 343-M03-11GN (1-19)	11/18/1996	890	4.6	<5	901	232
FSW 343-M03-12R (1-19)	11/18/1996	1044	4.4	<5	1120	276
FSW 343-M03-13BU (1-19)	11/18/1996	1184	4.9	<5	1346	304
FSW 343-M03-14BK (1-19)	11/18/1996	1193	6.8	<5	1446	325
FSW 343-M03-15W (1-19)	11/18/1996	1159	6.1	<5	1529	355
FSW 343-M01-01PT	2/19/1997	--	--	--	--	--
FSW 343-M01-02GNT	2/19/1997	5	<0.7	14	1217	222
FSW 343-M01-03RT	2/19/1997	65	23.2	12	811	125
FSW 343-M01-04BUT	2/19/1997	78	15.8	7	658	134
FSW 343-M01-05BKT	2/19/1997	152	<0.7	6	400	114
FSW 343-M01-05BKT-D	2/19/1997	152	<0.7	5	398	115
FSW 343-M01-06WT	2/19/1997	42	<0.7	<5	138	107
FSW 343-M01-07O	2/19/1997	35	<0.7	6	394	172
FSW 343-M01-08GY	2/19/1997	42	<0.7	<5	160	142
FSW 343-M01-09Y	2/19/1997	45	<0.7	<5	175	153
FSW 343-M01-10P	2/19/1997	47	<0.7	<5	170	189
FSW 343-M02-01PT	2/19/1997	--	--	--	--	--
FSW 343-M02-02GNT	2/19/1997	--	--	--	--	--
FSW 343-M02-03RT	2/19/1997	1274	3.5	56	1730	278
FSW 343-M02-04BUT	2/19/1997	1038	<0.7	140	1772	280
FSW 343-M02-05BKT	2/19/1997	916	<0.7	129	1701	279
FSW 343-M02-06WT	2/19/1997	791	4.6	12	1658	277
FSW 343-M02-07O	2/19/1997	776	38.5	10	1621	281
FSW 343-M02-08GY	2/19/1997	750	49.9	20	1608	279
FSW 343-M02-08GY-D	2/19/1997	747	49.6	19	1574	280
FSW 343-M02-09Y	2/19/1997	50	8.7	21	1588	280
FSW 343-M02-10P	2/19/1997	<5	<0.7	38	1254	252
FSW 343-M02-11GN	2/19/1997	<5	<0.7	36	1501	291
FSW 343-M02-12R	2/19/1997	<5	<0.7	28	1346	268
FSW 343-M02-13BU	2/19/1997	<5	<0.7	29	1335	247
FSW 343-M02-14BK	2/19/1997	<5	<0.7	28	1371	244
FSW 343-M02-15W	2/19/1997	<5	<0.7	15	1348	242
FSW 343-M03-01PT (1-19)	2/19/1997	<5	<0.7	<5	144	72

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FSW 343-M03-02GNT (1-19)	2/19/1997	<5	<0.7	<5	289	80
FSW 343-M03-02GNT (1-19)-D	2/19/1997	<5	<0.7	<5	294	80
FSW 343-M03-03RT (1-19)	2/19/1997	<5	<0.7	<5	347	68
FSW 343-M03-04BUT (1-19)	2/19/1997	19	<0.7	<5	268	64
FSW 343-M03-05BKT (1-19)	2/19/1997	122	<0.7	<5	218	76
FSW 343-M03-06WT (1-19)	2/19/1997	209	<0.7	<5	217	79
FSW 343-M03-07O (1-19)	2/19/1997	461	<0.7	<5	414	106
FSW 343-M03-08GY (1-19)	2/19/1997	620	1.8	<5	567	129
FSW 343-M03-09Y (1-19)	2/19/1997	685	4.3	5	651	152
FSW 343-M03-10P (1-19)	2/19/1997	1102	5.9	13	1071	207
FSW 343-M03-11GN (1-19)	2/19/1997	1403	7.3	15	1398	242
FSW 343-M03-11GN (1-19)-D	2/19/1997	1390	7.3	17	1391	243
FSW 343-M03-12R (1-19)	2/19/1997	1472	8.2	17	1502	256
FSW 343-M03-13BU (1-19)	2/19/1997	1483	9.0	20	1536	260
FSW 343-M03-14BK (1-19)	2/19/1997	1494	8.0	22	1562	265
FSW 343-M03-15W (1-19)	2/19/1997	1492	2.9	20	1586	258
FSW 343-M01-01PT	5/14/1997	--	--	--	--	--
FSW 343-M01-02GNT	5/14/1997	<5	<0.7	11	744	142
FSW 343-M01-03RT	5/14/1997	61	24.4	8	593	100
FSW 343-M01-04BUT	5/14/1997	72	8.8	8	553	104
FSW 343-M01-05BKT	5/14/1997	57	<0.7	7	378	144
FSW 343-M01-06WT	5/14/1997	40	<0.7	7	143	94
FSW 343-M01-07O	5/14/1997	44	<0.7	<5	149	107
FSW 343-M01-08GY	5/14/1997	47	<0.7	<5	157	110
FSW 343-M01-09Y	5/14/1997	45	<0.7	<5	179	207
FSW 343-M01-09Y-D	5/14/1997	45	<0.7	<5	180	208
FSW 343-M01-10P	5/14/1997	43	<0.7	<5	158	226
FSW 343-M02-01PT	5/15/1997	--	--	--	--	--
FSW 343-M02-02GNT	5/15/1997	--	--	--	--	--
FSW 343-M02-03RT	5/15/1997	1134	5.1	62	1598	231
FSW 343-M02-03RT-D	5/15/1997	1150	5.4	66	1631	227
FSW 343-M02-04BUT	5/15/1997	388	<0.7	65	1064	210
FSW 343-M02-05BKT	5/15/1997	<5	<0.7	111	889	147
FSW 343-M02-06WT	5/15/1997	<5	<0.7	72	1254	146
FSW 343-M02-07O	5/15/1997	527	7.4	18	1498	218

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M02-08GY	5/15/1997	995	31.8	16	1711	331
FSW 343-M02-09Y	5/15/1997	687	53.8	16	1523	248
FSW 343-M02-10P	5/15/1997	<5	<0.7	21	1010	201
FSW 343-M02-11GN	5/15/1997	<5	<0.7	24	1346	271
FSW 343-M02-12R	5/15/1997	<5	<0.7	17	1225	215
FSW 343-M02-12R-D	5/15/1997	<5	<0.7	15	1175	213
FSW 343-M02-13BU	5/15/1997	<5	<0.7	10	687	142
FSW 343-M02-14BK	5/15/1997	<5	<0.7	12	647	117
FSW 343-M02-15W	5/15/1997	<5	<0.7	8	629	156
FSW 343-M03-01PT (1-19)	5/15/1997	<5	<0.7	<5	220	65
FSW 343-M03-02GNT (1-19)	5/15/1997	<5	<0.7	<5	228	87
FSW 343-M03-03RT (1-19)	5/15/1997	<5	<0.7	<5	326	74
FSW 343-M03-04BUT (1-19)	5/15/1997	36	<0.7	<5	288	80
FSW 343-M03-05BKT (1-19)	5/15/1997	85	<0.7	5	218	78
FSW 343-M03-06WT (1-19)	5/15/1997	142	<0.7	<5	206	83
FSW 343-M03-06WT (1-19)-D	5/15/1997	142	<0.7	6	211	81
FSW 343-M03-07O (1-19)	5/15/1997	307	<0.7	<5	251	124
FSW 343-M03-08GY (1-19)	5/15/1997	424	<0.7	6	286	141
FSW 343-M03-09Y (1-19)	5/15/1997	761	<0.7	<5	487	139
FSW 343-M03-10P (1-19)	5/15/1997	1360	1.0	<5	847	214
FSW 343-M03-11GN (1-19)	5/15/1997	1483	3.8	<5	1076	227
FSW 343-M03-12R (1-19)	5/15/1997	1535	5.3	<5	1175	213
FSW 343-M03-13BU (1-19)	5/15/1997	1466	6.3	<5	1189	259
FSW 343-M03-14BK (1-19)	5/15/1997	1442	7.3	<5	1398	243
FSW 343-M03-15W (1-19)	5/15/1997	1242	8.7	<5	1429	252
FSW 343-M01-01PT	8/6/1997	--	--	--	--	--
FSW 343-M01-02GNT	8/6/1997	<5	<0.7	<5	567	179
FSW 343-M01-02GNT-D	8/6/1997	<5	<0.7	<5	559	160
FSW 343-M01-03RT	8/6/1997	11	13.1	<5	359	171
FSW 343-M01-04BUT	8/6/1997	36	<0.7	<5	234	124
FSW 343-M01-05BKT	8/6/1997	42	<0.7	<5	142	103
FSW 343-M01-06WT	8/6/1997	40	<0.7	<5	147	93
FSW 343-M01-07O	8/6/1997	40	<0.7	<5	149	99
FSW 343-M01-08GY	8/6/1997	43	<0.7	<5	170	182
FSW 343-M01-09Y	8/6/1997	39	<0.7	<5	155	200

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-10P	8/6/1997	41	<0.7	<5	149	230
FSW 343-M02-01PT	8/6/1997	--	--	--	--	--
FSW 343-M02-02GNT	8/6/1997	--	--	--	--	--
FSW 343-M02-03RT	8/6/1997	590	2.2	<5	604	162
FSW 343-M02-03RT-D	8/6/1997	592	2.3	<5	602	161
FSW 343-M02-04BUT	8/6/1997	<5	<0.7	<5	997	154
FSW 343-M02-05BKT	8/6/1997	<5	<0.7	8	1242	189
FSW 343-M02-06WT	8/6/1997	<5	<0.7	<5	1287	107
FSW 343-M02-07O	8/6/1997	541	4.4	<5	1395	245
FSW 343-M02-08GY	8/6/1997	451	33.3	<5	1306	235
FSW 343-M02-09Y	8/6/1997	<5	8.6	<5	650	116
FSW 343-M02-10P	8/6/1997	<5	<0.7	<5	1060	187
FSW 343-M02-11GN	8/6/1997	<5	<0.7	<5	881	169
FSW 343-M02-12R	8/6/1997	<5	<0.7	<5	877	148
FSW 343-M02-12R-D	8/6/1997	<5	<0.7	<5	877	137
FSW 343-M02-13BU	8/6/1997	<5	<0.7	<5	843	192
FSW 343-M02-14BK	8/6/1997	<5	<0.7	<5	802	184
FSW 343-M02-15W	8/6/1997	<5	<0.7	24	664	263
FSW 343-M03-01PT (1-19)	8/7/1997	<5	<0.7	7	274	86
FSW 343-M03-02GNT (1-19)	8/7/1997	<5	<0.7	7	280	80
FSW 343-M03-03RT (1-19)	8/7/1997	<5	<0.7	9	298	130
FSW 343-M03-04BUT (1-19)	8/7/1997	88	<0.7	9	198	69
FSW 343-M03-05BKT (1-19)	8/7/1997	260	<0.7	<5	125	99
FSW 343-M03-06WT (1-19)	8/7/1997	347	<0.7	<5	99	85
FSW 343-M03-06WT (1-19)-D	8/7/1997	348	<0.7	<5	98	79
FSW 343-M03-07O (1-19)	8/7/1997	583	<0.7	<5	107	83
FSW 343-M03-08GY (1-19)	8/7/1997	562	1.1	<5	131	96
FSW 343-M03-09Y (1-19)	8/7/1997	759	4.3	<5	280	136
FSW 343-M03-10P (1-19)	8/7/1997	995	6.3	<5	365	149
FSW 343-M03-11GN (1-19)	8/7/1997	1168	7.9	<5	454	228
FSW 343-M03-12R (1-19)	8/7/1997	1152	9.8	<5	543	180
FSW 343-M03-13BU (1-19)	8/7/1997	1194	10.4	<5	581	200
FSW 343-M03-14BK (1-19)	8/7/1997	900	11.1	<5	668	199
FSW 343-M03-15W (1-19)	8/7/1997	276	11.2	<5	714	204

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-01PT	10/30/1997	--	--	--	--	--
FSW 343-M01-02GNT	10/30/1997	<5	<0.7	10	404	172
FSW 343-M01-02GNT-D	10/30/1997	<5	<0.7	16	402	174
FSW 343-M01-03RT	10/30/1997	25	13.0	13	213	156
FSW 343-M01-04BUT	10/30/1997	39	0.9	23	178	132
FSW 343-M01-05BKT	10/30/1997	44	<0.7	10	150	90
FSW 343-M01-06WT	10/30/1997	37	<0.7	7	146	101
FSW 343-M01-07O	10/30/1997	38	<0.7	19	156	116
FSW 343-M01-08GY	10/30/1997	41	<0.7	11	169	182
FSW 343-M01-09Y	10/30/1997	38	<0.7	11	157	211
FSW 343-M01-10P	10/30/1997	40	<0.7	<5	146	193
FSW 343-M02-01PT	10/30/1997	--	--	--	--	--
FSW 343-M02-02GNT	10/30/1997	--	--	--	--	--
FSW 343-M02-03RT	10/30/1997	70	3.5	<5	654	131
FSW 343-M02-03RT-D	10/30/1997	69	3.4	<5	640	140
FSW 343-M02-04BUT	10/30/1997	335	<0.7	<5	952	130
FSW 343-M02-05BKT	10/30/1997	198	<0.7	39	1120	103
FSW 343-M02-06WT	10/30/1997	18	<0.7	13	1301	79
FSW 343-M02-07O	10/30/1997	<5	<0.7	<5	821	89
FSW 343-M02-08GY	10/30/1997	<5	<0.7	<5	713	119
FSW 343-M02-09Y	10/30/1997	<5	<0.7	<5	757	97
FSW 343-M02-10P	10/30/1997	<5	<0.7	<5	591	97
FSW 343-M02-11GN	10/30/1997	<5	<0.7	12	487	97
FSW 343-M02-12R	10/30/1997	<5	<0.7	39	704	142
FSW 343-M02-12R-D	10/30/1997	<5	<0.7	46	691	140
FSW 343-M02-13BU	10/30/1997	<5	<0.7	153	970	170
FSW 343-M02-14BK	10/30/1997	<5	<0.7	11	816	195
FSW 343-M02-15W	10/30/1997	<5	<0.7	130	679	175
FSW 343-M03-01PT (1-19)	10/30/1997	<5	<0.7	18	234	64
FSW 343-M03-02GNT (1-19)	10/30/1997	<5	<0.7	12	264	70
FSW 343-M03-03RT (1-19)	10/30/1997	<5	<0.7	17	282	56
FSW 343-M03-04BUT (1-19)	10/30/1997	11	<0.7	15	237	75
FSW 343-M03-05BKT (1-19)	10/30/1997	79	<0.7	6	161	94
FSW 343-M03-06WT (1-19)	10/30/1997	163	<0.7	15	120	72
FSW 343-M03-06WT (1-19)-D	10/30/1997	166	<0.7	14	123	89

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-07O (1-19)	10/30/1997	379	<0.7	26	115	87
FSW 343-M03-08GY (1-19)	10/30/1997	985	0.7	11	120	109
FSW 343-M03-09Y (1-19)	10/30/1997	1276	5.8	<5	141	108
FSW 343-M03-10P (1-19)	10/30/1997	1438	8.1	<5	151	136
FSW 343-M03-11GN (1-19)	10/30/1997	1618	9.8	34	196	120
FSW 343-M03-12R (1-19)	10/30/1997	1687	10.4	<5	254	134
FSW 343-M03-13BU (1-19)	10/30/1997	1513	11.3	<5	343	132
FSW 343-M03-14BK (1-19)	10/30/1997	1150	12.9	<5	421	166
FSW 343-M03-15W (1-19)	10/30/1997	714	13.4	<5	458	150
FSW 343-M01-01PT	6/2/1998	--	--	--	--	--
FSW 343-M01-02GNT	6/2/1998	<5	<0.7	7	319	166
FSW 343-M01-03RT	6/2/1998	44	4.3	7	183	103
FSW 343-M01-04BUT	6/2/1998	43	<0.7	<5	160	92
FSW 343-M01-05BKT	6/2/1998	42	<0.7	<5	147	90
FSW 343-M01-06WT	6/2/1998	35	<0.7	7	157	110
FSW 343-M01-07O	6/2/1998	37	<0.7	<5	155	110
FSW 343-M01-08GY	6/2/1998	38	<0.7	<5	174	165
FSW 343-M01-09Y	6/2/1998	35	<0.7	<5	148	186
FSW 343-M01-09Y-D	6/2/1998	36	<0.7	<5	153	188
FSW 343-M01-10P	6/2/1998	36	<0.7	<5	155	169
FSW 343-M01-11GN	6/2/1998	--	--	--	--	--
FSW 343-M01-12R	6/2/1998	--	--	--	--	--
FSW 343-M01-13BU	6/2/1998	--	--	--	--	--
FSW 343-M01-14BK	6/2/1998	43	<0.7	6	144	217
FSW 343-M01-15W	6/2/1998	54	<0.7	<5	178	193
FSW 343-M02-01PT	6/2/1998	--	--	--	--	--
FSW 343-M02-02GNT	6/2/1998	--	--	--	--	--
FSW 343-M02-03RT	6/2/1998	8	5.8	9	790	106
FSW 343-M02-04BUT	6/2/1998	<5	7.7	<5	593	92
FSW 343-M02-05BKT	6/2/1998	<5	<0.7	14	618	111
FSW 343-M02-06WT	6/2/1998	<5	<0.7	8	491	118
FSW 343-M02-07O	6/2/1998	<5	<0.7	55	746	102
FSW 343-M02-08GY	6/2/1998	<5	<0.7	37	390	161
FSW 343-M02-09Y	6/2/1998	<5	<0.7	32	498	144
FSW 343-M02-10P	6/2/1998	<5	<0.7	10	456	116

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M02-10P-D	6/2/1998	<5	<0.7	7	457	116
FSW 343-M02-11GN	6/2/1998	<5	<0.7	13	482	138
FSW 343-M02-12R	6/2/1998	<5	<0.7	99	952	180
FSW 343-M02-13BU	6/2/1998	<5	<0.7	82	906	175
FSW 343-M02-14BK	6/2/1998	<5	<0.7	47	979	172
FSW 343-M02-15W	6/2/1998	<5	<0.7	48	485	163
FSW 343-M03-01PT (1-19)	6/2/1998	<5	<0.7	<5	246	68
FSW 343-M03-02GNT (1-19)	6/2/1998	<5	<0.7	8	235	89
FSW 343-M03-03RT (1-19)	6/2/1998	<5	<0.7	<5	218	87
FSW 343-M03-04BUT (1-19)	6/2/1998	40	<0.7	<5	192	76
FSW 343-M03-04BUT (1-19)-D	6/2/1998	41	<0.7	<5	192	76
FSW 343-M03-05BKT (1-19)	6/2/1998	177	<0.7	<5	148	68
FSW 343-M03-06WT (1-19)	6/2/1998	261	<0.7	8	150	70
FSW 343-M03-07O (1-19)	6/2/1998	359	<0.7	9	249	87
FSW 343-M03-08GY (1-19)	6/2/1998	417	<0.7	8	301	93
FSW 343-M03-09Y (1-19)	6/2/1998	443	0.8	6	344	99
FSW 343-M03-10P (1-19)	6/2/1998	438	2.8	9	754	115
FSW 343-M03-11GN (1-19)	6/2/1998	346	4.4	7	986	121
FSW 343-M03-12R (1-19)	6/2/1998	300	4.8	9	976	126
FSW 343-M03-13BU (1-19)	6/2/1998	186	4.6	5	996	130
FSW 343-M03-14BK (1-19)	6/2/1998	208	6.5	16	1214	140
FSW 343-M03-15W (1-19)	6/2/1998	281	8.0	8	1344	142
FSW 343-M01-01PT	11/10/1998	--	--	--	--	--
FSW 343-M01-02GNT	11/10/1998	<5	<0.7	12	436	100
FSW 343-M01-03RT	11/10/1998	45	2.1	9	448	94
FSW 343-M01-04BUT	11/10/1998	53	<0.7	<5	201	86
FSW 343-M01-05BKT	11/10/1998	52	<0.7	11	551	76
FSW 343-M01-06WT	11/10/1998	52	<0.7	16	353	79
FSW 343-M01-07O	11/10/1998	38	<0.7	10	161	155
FSW 343-M01-08GY	11/10/1998	36	<0.7	11	169	176
FSW 343-M01-09Y	11/10/1998	32	<0.7	11	155	161
FSW 343-M01-09Y-D	11/10/1998	33	<0.7	12	154	170
FSW 343-M01-10P	11/10/1998	33	<0.7	9	157	133
FSW 343-M02-01PT	11/10/1998	--	--	--	--	--

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M02-02GNT	11/10/1998	--	--	--	--	--
FSW 343-M02-03RT	11/10/1998	<5	5.9	17	338	139
FSW 343-M02-04BUT	11/10/1998	<5	3.6	10	471	130
FSW 343-M02-05BKT	11/10/1998	<5	<0.7	15	559	80
FSW 343-M02-06WT	11/10/1998	<5	<0.7	49	503	74
FSW 343-M02-07O	11/10/1998	<5	<0.7	40	455	116
FSW 343-M02-08GY	11/10/1998	<5	<0.7	26	420	145
FSW 343-M02-09Y	11/10/1998	<5	<0.7	21	492	168
FSW 343-M02-10P	11/10/1998	<5	<0.7	17	472	167
FSW 343-M02-10P-D	11/10/1998	<5	<0.7	22	476	169
FSW 343-M02-11GN	11/10/1998	<5	<0.7	22	651	208
FSW 343-M02-12R	11/10/1998	<5	<0.7	101	732	155
FSW 343-M02-13BU	11/10/1998	<5	<0.7	115	468	195
FSW 343-M02-14BK	11/10/1998	<5	<0.7	44	526	176
FSW 343-M02-15W	11/10/1998	<5	<0.7	45	550	136
FSW 343-M03-01PT (1-19)	11/10/1998	<5	<0.7	8	239	73
FSW 343-M03-02GNT (1-19)	11/10/1998	<5	<0.7	7	246	64
FSW 343-M03-03RT (1-19)	11/10/1998	<5	<0.7	8	207	58
FSW 343-M03-04BUT (1-19)	11/10/1998	28	<0.7	10	184	65
FSW 343-M03-04BUT (1-19)-D	11/10/1998	28	<0.7	13	183	66
FSW 343-M03-05BKT (1-19)	11/10/1998	139	<0.7	8	156	70
FSW 343-M03-06WT (1-19)	11/10/1998	300	<0.7	16	132	83
FSW 343-M03-07O (1-19)	11/10/1998	495	<0.7	16	147	103
FSW 343-M03-08GY (1-19)	11/10/1998	599	1.5	11	224	118
FSW 343-M03-09Y (1-19)	11/10/1998	493	5.2	14	328	121
FSW 343-M03-10P (1-19)	11/10/1998	310	7.5	22	378	137
FSW 343-M03-11GN (1-19)	11/10/1998	135	7.6	8	388	147
FSW 343-M03-12R (1-19)	11/10/1998	51	6.5	6	377	150
FSW 343-M03-13BU (1-19)	11/10/1998	14	4.5	13	386	149
FSW 343-M03-14BK (1-19)	11/10/1998	<5	0.7	6	425	147
FSW 343-M03-15W (1-19)	11/10/1998	<5	<0.7	8	346	143
FSW 343-M01-01PT	6/8/1999	--	--	--	--	--
FSW 343-M01-02GNT	6/8/1999	17	12.2	7	431	93
FSW 343-M01-03RT	6/8/1999	60	<0.7	<5	356	75
FSW 343-M01-03RT-D	6/8/1999	60	<0.7	<5	362	75

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-04BUT	6/8/1999	59	<0.7	8	393	69
FSW 343-M01-05BKT	6/8/1999	45	<0.7	<5	769	48
FSW 343-M01-06WT	6/8/1999	47	<0.7	5	506	63
FSW 343-M01-07O	6/8/1999	44	<0.7	6	205	115
FSW 343-M01-08GY	6/8/1999	35	<0.7	5	187	161
FSW 343-M01-09Y	6/8/1999	34	<0.7	6	175	184
FSW 343-M01-10P	6/8/1999	35	<0.7	6	163	146
FSW 343-M02-01PT	6/8/1999	--	--	--	--	--
FSW 343-M02-02GNT	6/8/1999	--	--	--	--	--
FSW 343-M02-03RT	6/8/1999	27	21.7	6	570	114
FSW 343-M02-04BUT	6/8/1999	215	37.8	7	812	157
FSW 343-M02-05BKT	6/8/1999	<5	<0.7	40	755	116
FSW 343-M02-06WT	6/8/1999	<5	<0.7	61	517	89
FSW 343-M02-07O	6/8/1999	<5	<0.7	46	581	122
FSW 343-M02-08GY	6/8/1999	<5	<0.7	25	520	149
FSW 343-M02-09Y	6/8/1999	<5	<0.7	50	613	174
FSW 343-M02-09Y-D	6/8/1999	<5	<0.7	44	615	175
FSW 343-M02-10P	6/8/1999	<5	<0.7	34	684	196
FSW 343-M02-11GN	6/8/1999	<5	<0.7	93	723	164
FSW 343-M02-12R	6/8/1999	<5	<0.7	109	667	128
FSW 343-M02-13BU	6/8/1999	<5	<0.7	94	541	117
FSW 343-M02-14BK	6/8/1999	<5	<0.7	60	393	89
FSW 343-M02-15W	6/8/1999	<5	<0.7	29	469	87
FSW 343-M03-01PT (1-19)	6/8/1999	<5	<0.7	<5	261	61
FSW 343-M03-02GNT (1-19)	6/8/1999	11	<0.7	8	225	76
FSW 343-M03-03RT (1-19)	6/8/1999	78	<0.7	7	196	85
FSW 343-M03-04BUT (1-19)	6/8/1999	154	<0.7	7	235	114
FSW 343-M03-05BKT (1-19)	6/8/1999	165	0.7	7	300	152
FSW 343-M03-06WT (1-19)	6/8/1999	175	1.0	6	306	167
FSW 343-M03-06WT (1-19)-D	6/8/1999	176	1.0	6	310	169
FSW 343-M03-07O (1-19)	6/8/1999	143	1.6	5	359	186
FSW 343-M03-08GY (1-19)	6/8/1999	115	3.3	6	457	166
FSW 343-M03-09Y (1-19)	6/8/1999	51	3.1	10	579	149
FSW 343-M03-10P (1-19)	6/8/1999	21	2.2	15	594	156
FSW 343-M03-11GN (1-19)	6/8/1999	<5	<0.7	7	649	157

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-12R (1-19)	6/8/1999	<5	<0.7	<5	638	162
FSW 343-M03-13BU (1-19)	6/8/1999	<5	<0.7	<5	595	153
FSW 343-M03-14BK (1-19)	6/8/1999	<5	<0.7	9	521	144
FSW 343-M03-14BK (1-19)-D	6/8/1999	<5	<0.7	<5	537	146
FSW 343-M03-15W (1-19)	6/8/1999	<5	<0.7	5	476	170
FSW 343-M01-01PT	6/13/2000	--	--	--	--	--
FSW 343-M01-02GNT	6/13/2000	50	<0.7	<5	649	65
FSW 343-M01-03RT	6/13/2000	43	<0.7	<5	698	53
FSW 343-M01-04BUT	6/13/2000	42	<0.7	<5	695	51
FSW 343-M01-05BKT	6/13/2000	40	<0.7	<5	224	109
FSW 343-M01-06WT	6/13/2000	32	<0.7	<5	214	89
FSW 343-M01-06WT-D	6/13/2000	34	<0.7	<5	215	89
FSW 343-M01-07O	6/13/2000	30	<0.7	<5	184	100
FSW 343-M01-08GY	6/13/2000	31	<0.7	<5	187	147
FSW 343-M01-09Y	6/13/2000	31	<0.7	<5	163	170
FSW 343-M01-09Y-D	6/13/2000	30	<0.7	<5	162	168
FSW 343-M01-10P	6/13/2000	32	0.7	<5	153	153
FSW 343-M02-01PT	6/14/2000	--	--	--	--	--
FSW 343-M02-02GNT	6/14/2000	--	--	--	--	--
FSW 343-M02-03RT	6/14/2000	<5	3.6	<5	403	100
FSW 343-M02-04BUT	6/14/2000	<5	<0.7	<5	465	86
FSW 343-M02-05BKT	6/14/2000	<5	<0.7	<5	418	80
FSW 343-M02-06WT	6/14/2000	<5	<0.7	21	540	93
FSW 343-M02-07O	6/13/2000	<5	<0.7	73	497	107
FSW 343-M02-08GY	6/13/2000	<5	<0.7	52	505	116
FSW 343-M02-09Y	6/13/2000	<5	<0.7	55	542	115
FSW 343-M02-10P	6/13/2000	<5	<0.7	80	483	120
FSW 343-M02-11GN	6/13/2000	<5	<0.7	--	534	121
FSW 343-M02-12R	6/13/2000	<5	<0.7	60	623	125
FSW 343-M02-13BU	6/13/2000	<5	<0.7	32	652	178
FSW 343-M02-13BU-D	6/13/2000	<5	<0.7	12	641	175
FSW 343-M02-14BK	6/13/2000	<5	<0.7	31	671	130
FSW 343-M02-15W	6/13/2000	<5	<0.7	<5	643	92
FSW 343-M03-01PT (1-19)	6/14/2000	<5	<0.7	<5	364	33

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-02GNT (1-19)	6/14/2000	<5	<0.7	<5	359	46
FSW 343-M03-02GNT (1-19)-D	6/14/2000	<5	<0.7	<5	330	43
FSW 343-M03-03RT (1-19)	6/14/2000	15	<0.7	<5	269	66
FSW 343-M03-03RT (1-19)-D	6/14/2000	15	<0.7	<5	285	68
FSW 343-M03-04BUT (1-19)	6/14/2000	148	<0.7	<5	175	85
FSW 343-M03-05BKT (1-19)	6/14/2000	261	<0.7	<5	175	118
FSW 343-M03-06WT (1-19)	6/14/2000	312	<0.7	<5	236	133
FSW 343-M03-07O (1-19)	6/14/2000	288	1.0	<5	299	137
FSW 343-M03-08GY (1-19)	6/14/2000	164	2.7	<5	477	131
FSW 343-M03-09Y (1-19)	6/14/2000	94	6.0	<5	606	121
FSW 343-M03-10P (1-19)	6/14/2000	111	8.4	<5	688	121
FSW 343-M03-11GN (1-19)	6/14/2000	150	12.1	<5	787	121
FSW 343-M03-12R (1-19)	6/14/2000	178	15.2	<5	807	113
FSW 343-M03-13BU (1-19)	6/14/2000	133	16.9	<5	732	106
FSW 343-M03-14BK (1-19)	6/14/2000	61	14.2	<5	553	96
FSW 343-M03-15W (1-19)	6/14/2000	67	13.2	<5	441	77
FSW 343-M01-01PT	6/18/2002	--	--	--	--	--
FSW 343-M01-02GNT	6/18/2002	6	<0.7	<5	985	98
FSW 343-M01-03RT	6/18/2002	32	<0.7	<5	559	94
FSW 343-M01-04BUT	6/18/2002	42	<0.7	<5	285	86
FSW 343-M01-05BKT	6/18/2002	52	<0.7	<5	157	94
FSW 343-M01-06WT	6/18/2002	48	<0.7	<5	166	100
FSW 343-M01-07O	6/18/2002	36	<0.7	<5	191	142
FSW 343-M01-07O-D	6/18/2002	36	<0.7	<5	206	144
FSW 343-M01-08GY	6/18/2002	29	<0.7	<5	208	155
FSW 343-M01-09Y	6/18/2002	31	<0.7	<5	177	157
FSW 343-M01-10P	6/18/2002	32	<0.7	<5	174	135
FSW 343-M02-01PT	6/18/2002	--	--	--	--	--
FSW 343-M02-02GNT	6/18/2002	--	--	--	--	--
FSW 343-M02-03RT	6/18/2002	35	13.3	<5	304	98
FSW 343-M02-04BUT	6/18/2002	58	28.8	<5	291	111
FSW 343-M02-05BKT	6/18/2002	<5	35.9	<5	309	121
FSW 343-M02-06WT	6/18/2002	<5	<0.7	<5	346	106
FSW 343-M02-07O	6/18/2002	<5	<0.7	31	666	78
FSW 343-M02-08GY	6/18/2002	<5	<0.7	25	665	72

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M02-09Y	6/18/2002	<5	<0.7	31	822	45
FSW 343-M02-10P	6/18/2002	<5	<0.7	56	902	56
FSW 343-M02-11GN	6/18/2002	<5	<0.7	39	1057	51
FSW 343-M02-12R	6/18/2002	<5	<0.7	14	1393	49
FSW 343-M02-13BU	6/18/2002	<5	<0.7	<5	1295	105
FSW 343-M02-14BK	6/18/2002	<5	<0.7	<5	1224	115
FSW 343-M02-15W	6/18/2002	<5	<0.7	<5	1217	132
FSW 343-M02-15W-D	6/18/2002	<5	<0.7	<5	1218	131
FSW 343-M03-01PT (1-19)	6/18/2002	--	--	--	--	--
FSW 343-M03-02GNT (1-19)	6/18/2002	--	--	--	--	--
FSW 343-M03-03RT (1-19)	6/18/2002	<5	<0.7	<5	256	43
FSW 343-M03-04BUT (1-19)	6/18/2002	27	<0.7	<5	241	71
FSW 343-M03-05BKT (1-19)	6/18/2002	100	<0.7	<5	198	99
FSW 343-M03-06WT (1-19)	6/18/2002	116	<0.7	<5	208	116
FSW 343-M03-06WT (1-19)-D	6/18/2002	114	<0.7	<5	206	114
FSW 343-M03-07O (1-19)	6/18/2002	108	<0.7	<5	232	133
FSW 343-M03-08GY (1-19)	6/18/2002	88	0.8	<5	267	135
FSW 343-M03-08GY (1-19)	6/18/2002	123	1.0	<5	257	129
FSW 343-M03-09Y (1-19)	6/18/2002	96	2.6	<5	272	127
FSW 343-M03-10P (1-19)	6/18/2002	42	4.7	<5	296	131
FSW 343-M03-12R (1-19)	6/18/2002	36	6.0	<5	305	133
FSW 343-M03-13BU (1-19)	6/18/2002	34	6.8	<5	307	128
FSW 343-M03-14BK (1-19)	6/18/2002	31	8.2	<5	321	111
FSW 343-M03-15W (1-19)	6/18/2002	24	7.3	<5	320	108
FSW 343-M01-01PT	8/24/2004	<5	<0.7	<5	1063	60
FSW 343-M01-02GNT	8/24/2004	33	5.4	<5	717	39
FSW 343-M01-03RT	8/24/2004	58	<0.7	<5	689	55
FSW 343-M01-05BKT	8/24/2004	35	<0.7	<5	255	79
FSW 343-M01-05BKT-D	8/24/2004	35	<0.7	<5	252	78
FSW 343-M01-06WT	8/24/2004	36	<0.7	<5	307	96
FSW 343-M01-07O	8/24/2004	35	<0.7	<5	293	112
FSW 343-M01-08GY	8/24/2004	34	<0.7	<5	446	95
FSW 343-M01-09Y	8/24/2004	30	<0.7	<5	223	121
FSW 343-M01-10P	8/24/2004	31	<0.7	<5	174	129
FSW 343-M01-11GN	8/24/2004	34	<0.7	<5	166	121

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M01-12R	8/24/2004	32	<0.7	<5	174	110
FSW 343-M01-13BU	8/24/2004	46	<0.7	<5	423	58
FSW 343-M01-13BU-D	8/24/2004	47	<0.7	<5	425	58
FSW 343-M01-14BK	8/24/2004	32	<0.7	<5	171	107
FSW 343-M01-15W	8/24/2004	34	<0.7	<5	178	138
FSW 343-M02-01PT	8/23/2004	68	10.3	<5	299	130
FSW 343-M02-02GNT	8/23/2004	<5	<0.7	<5	394	127
FSW 343-M02-03RT	8/23/2004	<5	<0.7	<5	334	103
FSW 343-M02-04BUT	8/23/2004	<5	<0.7	<5	283	102
FSW 343-M02-05BKT	8/23/2004	<5	<0.7	<5	261	122
FSW 343-M02-05BKT-D	8/23/2004	<5	<0.7	<5	256	120
FSW 343-M02-06WT	8/23/2004	<5	<0.7	<5	249	146
FSW 343-M02-07O	8/23/2004	<5	<0.7	<5	572	96
FSW 343-M02-08GY	8/23/2004	<5	<0.7	<5	741	80
FSW 343-M02-09Y	8/23/2004	<5	<0.7	<5	723	80
FSW 343-M02-10P	8/23/2004	<5	<0.7	<5	1025	72
FSW 343-M02-11GN	8/23/2004	<5	<0.7	<5	882	66
FSW 343-M02-12R	8/23/2004	<5	<0.7	<5	705	68
FSW 343-M02-13BU	8/23/2004	--	--	--	--	--
FSW 343-M02-14BK	8/23/2004	<5	<0.7	<5	1030	62
FSW 343-M02-15W	8/23/2004	<5	<0.7	<5	980	64
FSW 343-M03-01PT (1-19)	8/24/2004	<5	<0.7	<5	221	64
FSW 343-M03-02GNT (1-19)	8/24/2004	<5	<0.7	<5	235	75
FSW 343-M03-03RT (1-19)	8/24/2004	<5	<0.7	<5	215	63
FSW 343-M03-04BUT (1-19)	8/24/2004	42	<0.7	<5	144	57
FSW 343-M03-05BKT (1-19)	8/24/2004	82	<0.7	<5	101	56
FSW 343-M03-06WT (1-19)	8/24/2004	90	<0.7	<5	94	60
FSW 343-M03-06WT (1-19)-D	8/24/2004	92	<0.7	<5	94	59
FSW 343-M03-07O (1-19)	8/24/2004	102	<0.7	<5	95	63
FSW 343-M03-08GY (1-19)	8/24/2004	119	<0.7	<5	119	84
FSW 343-M03-09Y (1-19)	8/24/2004	122	2.9	<5	145	103
FSW 343-M03-10P (1-19)	8/24/2004	110	6.5	<5	172	107
FSW 343-M03-11GN (1-19)	8/24/2004	98	10.6	<5	220	114
FSW 343-M03-12R (1-19)	8/24/2004	68	11.7	<5	268	110
FSW 343-M03-13BU (1-19)	8/24/2004	34	10.3	<5	318	102

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 343-M03-14BK (1-19)	8/24/2004	12	3.8	<5	361	95
FSW 343-M03-15W (1-19)	8/24/2004	<5	<0.7	<5	373	91
FSW 424-M01-01PT	12/1/1994	<5	<0.7	282	--	483
FSW 424-M01-02GNT	12/1/1994	<5	<0.7	294	--	541
FSW 424-M01-03RT	12/1/1994	<5	<0.7	332	--	382
FSW 424-M01-04BUT	12/1/1994	<5	<0.7	330	--	398
FSW 424-M01-05BKT	12/1/1994	<5	<0.7	246	--	347
FSW 424-M01-06WT	12/1/1994	<5	<0.7	209	--	252
FSW 424-M01-07O	12/1/1994	<5	<0.7	199	--	170
FSW 424-M01-08GY	12/1/1994	<5	<0.7	146	--	177
FSW 424-M01-09Y	12/1/1994	20	<0.7	93	--	142
FSW 424-M01-10P	12/1/1994	25	<0.7	53	--	116
FSW 424-M01-11GN	12/1/1994	87	<0.7	35	--	132
FSW 424-M01-12R	12/1/1994	153	<0.7	25	--	144
FSW 424-M01-13BU	12/1/1994	155	<0.7	34	--	147
FSW 424-M01-13BU-D	12/1/1994	155	<0.7	31	--	146
FSW 424-M01-14BK	12/1/1994	164	<0.7	74	--	127
FSW 424-M01-15W	12/1/1994	186	<0.7	247	--	116
FSW 424-M02-01PT (72-13)	12/2/1994	<5	<0.7	10	--	90
FSW 424-M02-02GNT (72-13)	12/2/1994	6	<0.7	7	--	71
FSW 424-M02-03RT (72-13)	12/2/1994	<5	<0.7	9	--	85
FSW 424-M02-04BUT (72-13)	12/2/1994	<5	<0.7	9	--	80
FSW 424-M02-05BKT (72-13)	12/2/1994	9	<0.7	9	--	69
FSW 424-M02-06WT (72-13)	12/2/1994	45	<0.7	9	--	83
FSW 424-M02-07O (72-13)	12/2/1994	170	<0.7	9	--	127
FSW 424-M02-08GY (72-13)	12/2/1994	361	<0.7	9	--	202
FSW 424-M02-09Y (72-13)	12/2/1994	836	0.7	9	--	328
FSW 424-M02-10P (72-13)	12/2/1994	1165	0.7	9	--	329
FSW 424-M02-11GN (72-13)	12/2/1994	1076	12.1	12	--	341
FSW 424-M02-12R (72-13)	12/2/1994	412	35.7	11	--	361
FSW 424-M02-13BU (72-13)	12/2/1994	514	0.7	63	--	354
FSW 424-M02-14BK (72-13)	12/2/1994	526	<0.7	113	--	323
FSW 424-M02-14BK (72-13)-D	12/2/1994	534	<0.7	114	--	325
FSW 424-M02-15W (72-13)	12/2/1994	224	<0.7	157	--	312

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-01PT	7/9/1996	110	<0.7	102	1089	273
FSW 424-M01-02GNT	7/9/1996	<5	<0.7	217	854	320
FSW 424-M01-02GNT-D	7/9/1996	<5	<0.7	216	831	317
FSW 424-M01-03RT	7/9/1996	<5	<0.7	279	955	239
FSW 424-M01-04BUT	7/9/1996	<5	<0.7	275	818	186
FSW 424-M01-05BKT	7/9/1996	<5	<0.7	169	463	122
FSW 424-M01-06WT	7/9/1996	<5	<0.7	157	313	101
FSW 424-M01-07O	7/9/1996	<5	<0.7	113	242	76
FSW 424-M01-08GY	7/9/1996	<5	<0.7	148	412	97
FSW 424-M01-09Y	7/9/1996	<5	<0.7	121	442	68
FSW 424-M01-10P	7/9/1996	25	<0.7	75	547	79
FSW 424-M01-11GN	7/9/1996	71	<0.7	75	607	78
FSW 424-M01-11GN-D	7/9/1996	71	<0.7	80	608	78
FSW 424-M01-12R	7/9/1996	63	<0.7	56	518	65
FSW 424-M01-13BU	7/9/1996	92	<0.7	21	722	92
FSW 424-M01-14BK	7/9/1996	121	<0.7	37	790	70
FSW 424-M01-15W	7/9/1996	171	<0.7	67	229	94
FSW 424-M02-01PT (72-13)	7/10/1996	<5	<0.7	<5	1164	56
FSW 424-M02-02GNT (72-13)	7/10/1996	5	<0.7	<5	1093	62
FSW 424-M02-03RT (72-13)	7/10/1996	10	<0.7	7	518	76
FSW 424-M02-04BUT (72-13)	7/10/1996	5	<0.7	<5	434	70
FSW 424-M02-05BKT (72-13)	7/10/1996	13	<0.7	<5	368	71
FSW 424-M02-05BKT (72-13)-D	7/10/1996	12	<0.7	<5	361	76
FSW 424-M02-06WT (72-13)	7/10/1996	31	<0.7	<5	295	77
FSW 424-M02-07O (72-13)	7/10/1996	72	<0.7	<5	338	111
FSW 424-M02-08GY (72-13)	7/10/1996	167	<0.7	<5	426	150
FSW 424-M02-09Y (72-13)	7/10/1996	352	<0.7	5	590	178
FSW 424-M02-10P (72-13)	7/10/1996	692	<0.7	5	865	190
FSW 424-M02-11GN (72-13)	7/10/1996	876	3.1	<5	991	217
FSW 424-M02-12R (72-13)	7/10/1996	1048	3.5	<5	1151	220
FSW 424-M02-13BU (72-13)	7/10/1996	1076	2.7	<5	1217	251
FSW 424-M02-14BK (72-13)	7/10/1996	922	<0.7	9	1286	222
FSW 424-M02-14BK (72-13)-D	7/10/1996	920	<0.7	19	1280	221
FSW 424-M02-15W (72-13)	7/10/1996	865	<0.7	58	1315	238
FSW 424-M01-01PT	6/11/1997	<5	<0.7	184	1351	282

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-01PT-D	6/11/1997	<5	<0.7	185	1302	286
FSW 424-M01-02GNT	6/11/1997	<5	<0.7	255	1321	283
FSW 424-M01-03RT	6/11/1997	<5	<0.7	190	937	216
FSW 424-M01-04BUT	6/11/1997	<5	<0.7	202	887	204
FSW 424-M01-05BKT	6/11/1997	<5	<0.7	170	576	157
FSW 424-M01-06WT	6/11/1997	<5	<0.7	173	654	108
FSW 424-M01-07O	6/11/1997	<5	<0.7	197	792	60
FSW 424-M01-08GY	6/11/1997	<5	<0.7	219	963	60
FSW 424-M01-09Y	6/11/1997	104	<0.7	176	889	66
FSW 424-M01-09Y-D	6/11/1997	103	<0.7	184	909	84
FSW 424-M01-10P	6/11/1997	139	<0.7	151	754	96
FSW 424-M01-11GN	6/11/1997	139	<0.7	117	699	81
FSW 424-M01-12R	6/11/1997	153	<0.7	109	666	77
FSW 424-M01-13BU	6/11/1997	184	<0.7	46	404	90
FSW 424-M01-14BK	6/11/1997	188	<0.7	54	349	97
FSW 424-M01-15W	6/11/1997	202	<0.7	130	173	146
FSW 424-M02-01PT (72-13)	6/11/1997	<5	<0.7	11	822	59
FSW 424-M02-02GNT (72-13)	6/11/1997	<5	<0.7	12	724	45
FSW 424-M02-03RT (72-13)	6/11/1997	<5	<0.7	8	442	41
FSW 424-M02-04BUT (72-13)	6/11/1997	10	<0.7	7	255	44
FSW 424-M02-04BUT (72-13)-D	6/11/1997	9	<0.7	9	247	44
FSW 424-M02-05BKT (72-13)	6/11/1997	7	<0.7	14	145	48
FSW 424-M02-06WT (72-13)	6/11/1997	29	<0.7	13	136	59
FSW 424-M02-07O (72-13)	6/11/1997	109	<0.7	19	199	80
FSW 424-M02-08GY (72-13)	6/11/1997	299	<0.7	16	354	122
FSW 424-M02-09Y (72-13)	6/11/1997	668	<0.7	12	680	169
FSW 424-M02-10P (72-13)	6/11/1997	1156	1.1	<5	1140	202
FSW 424-M02-11GN (72-13)	6/11/1997	1224	4.9	<5	1388	209
FSW 424-M02-12R (72-13)	6/11/1997	1045	22.5	<5	1488	251
FSW 424-M02-13BU (72-13)	6/11/1997	791	<0.7	21	1470	291
FSW 424-M02-13BU (72-13)-D	6/11/1997	799	<0.7	23	1478	266
FSW 424-M02-14BK (72-13)	6/11/1997	133	<0.7	35	882	195
FSW 424-M02-15W (72-13)	6/11/1997	<5	<0.7	68	1400	286
FSW 424-M01-01PT	6/10/1998	419	<0.7	138	1388	275
FSW 424-M01-02GNT	6/10/1998	10	<0.7	216	1442	276

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-03RT	6/10/1998	10	<0.7	187	1406	280
FSW 424-M01-04BUT	6/10/1998	10	<0.7	147	1283	269
FSW 424-M01-05BKT	6/10/1998	<5	<0.7	150	1395	272
FSW 424-M01-06WT	6/10/1998	<5	<0.7	170	1154	223
FSW 424-M01-06WT-D	6/10/1998	<5	<0.7	174	1146	223
FSW 424-M01-07O	6/10/1998	<5	<0.7	174	1090	183
FSW 424-M01-08GY	6/10/1998	220	<0.7	137	973	186
FSW 424-M01-09Y	6/10/1998	473	<0.7	94	879	123
FSW 424-M01-10P	6/10/1998	343	<0.7	61	692	88
FSW 424-M01-11GN	6/10/1998	225	<0.7	14	627	88
FSW 424-M01-12R	6/10/1998	148	<0.7	<5	563	91
FSW 424-M01-13BU	6/10/1998	115	<0.7	13	395	114
FSW 424-M01-14BK	6/10/1998	126	<0.7	9	212	128
FSW 424-M01-15W	6/10/1998	197	<0.7	204	176	119
FSW 424-M01-15W-D	6/10/1998	198	<0.7	269	182	118
FSW 424-M02-01PT (72-13)	6/10/1998	<5	<0.7	8	317	76
FSW 424-M02-02GNT (72-13)	6/10/1998	<5	<0.7	8	164	59
FSW 424-M02-03RT (72-13)	6/10/1998	<5	<0.7	12	145	54
FSW 424-M02-04BUT (72-13)	6/10/1998	26	<0.7	6	147	54
FSW 424-M02-05BKT (72-13)	6/10/1998	16	<0.7	11	143	50
FSW 424-M02-06WT (72-13)	6/10/1998	61	<0.7	5	218	75
FSW 424-M02-07O (72-13)	6/10/1998	208	<0.7	7	411	127
FSW 424-M02-08GY (72-13)	6/10/1998	571	<0.7	11	785	197
FSW 424-M02-09Y (72-13)	6/10/1998	842	<0.7	8	1048	249
FSW 424-M02-09Y (72-13)-D	6/10/1998	831	<0.7	6	1001	233
FSW 424-M02-10P (72-13)	6/10/1998	1040	4.4	10	1285	288
FSW 424-M02-11GN (72-13)	6/10/1998	1111	7.2	8	1335	312
FSW 424-M02-12R (72-13)	6/10/1998	1015	16.3	10	1402	305
FSW 424-M02-13BU (72-13)	6/10/1998	1120	28.1	13	1401	298
FSW 424-M02-14BK (72-13)	6/10/1998	1083	20.0	11	1442	288
FSW 424-M02-15W (72-13)	6/10/1998	732	<0.7	21	1384	279
FSW 424-M01-01PT	6/29/1999	336	36.5	<5	1640	294
FSW 424-M01-02GNT	6/29/1999	12	<0.7	65	1552	304
FSW 424-M01-03RT	6/29/1999	<5	<0.7	73	1539	277
FSW 424-M01-04BUT	6/29/1999	<5	<0.7	59	1227	239

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-05BKT	6/29/1999	<5	<0.7	53	1180	247
FSW 424-M01-06WT	6/29/1999	<5	<0.7	89	1262	231
FSW 424-M01-06WT-D	6/29/1999	<5	<0.7	87	1236	232
FSW 424-M01-07O	6/29/1999	<5	<0.7	76	1094	236
FSW 424-M01-08GY	6/29/1999	49	<0.7	59	515	192
FSW 424-M01-09Y	6/29/1999	69	<0.7	22	233	168
FSW 424-M01-10P	6/29/1999	102	<0.7	13	237	120
FSW 424-M01-11GN	6/29/1999	60	<0.7	<5	173	126
FSW 424-M01-12R	6/29/1999	50	<0.7	<5	166	143
FSW 424-M01-13BU	6/29/1999	53	<0.7	<5	171	161
FSW 424-M01-14BK	6/29/1999	48	<0.7	<5	169	182
FSW 424-M01-15W	6/29/1999	192	<0.7	118	169	131
FSW 424-M02-01PT (72-13)	6/29/1999	<5	<0.7	<5	1023	50
FSW 424-M02-01PT (72-13)-D	6/29/1999	<5	<0.7	<5	1012	50
FSW 424-M02-02GNT (72-13)	6/29/1999	<5	<0.7	<5	677	34
FSW 424-M02-03RT (72-13)	6/29/1999	<5	<0.7	<5	640	38
FSW 424-M02-04BUT (72-13)	6/29/1999	<5	<0.7	<5	412	46
FSW 424-M02-05BKT (72-13)	6/29/1999	9	<0.7	<5	257	48
FSW 424-M02-05BKT (72-13)-D	6/29/1999	9	<0.7	<5	255	47
FSW 424-M02-06WT (72-13)	6/29/1999	41	<0.7	<5	183	69
FSW 424-M02-07O (72-13)	6/29/1999	177	<0.7	<5	179	89
FSW 424-M02-08GY (72-13)	6/29/1999	360	<0.7	<5	187	108
FSW 424-M02-09Y (72-13)	6/29/1999	600	<0.7	<5	264	149
FSW 424-M02-10P (72-13)	6/29/1999	631	1.5	<5	452	198
FSW 424-M02-11GN (72-13)	6/29/1999	428	2.1	<5	664	196
FSW 424-M02-12R (72-13)	6/29/1999	110	1.7	<5	854	179
FSW 424-M02-13BU (72-13)	6/29/1999	58	1.9	<5	1048	181
FSW 424-M02-14BK (72-13)	6/29/1999	243	10.5	<5	1318	257
FSW 424-M02-15W (72-13)	6/29/1999	469	33.8	<5	1545	303
FSW 424-M01-01PT	6/5/2000	0	<0.7	<5	866	122
FSW 424-M01-02GNT	6/5/2000	0	<0.7	6	679	148
FSW 424-M01-03RT	6/5/2000	0	<0.7	67	528	126
FSW 424-M01-04BUT	6/5/2000	0	<0.7	121	819	183
FSW 424-M01-05BKT	6/5/2000	0	<0.7	105	747	184
FSW 424-M01-06WT	6/5/2000	0	<0.7	30	520	175

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-07O	6/5/2000	0	<0.7	29	383	166
FSW 424-M01-08GY	6/5/2000	0	<0.7	20	212	124
FSW 424-M01-09Y	6/5/2000	0	<0.7	18	188	84
FSW 424-M01-10P	6/5/2000	80	<0.7	<5	137	63
FSW 424-M01-11GN	6/5/2000	71	<0.7	<5	168	91
FSW 424-M01-12R	6/5/2000	53	<0.7	<5	158	97
FSW 424-M01-13BU	6/5/2000	45	<0.7	<5	168	130
FSW 424-M01-13BU-D	6/5/2000	51	<0.7	<5	142	111
FSW 424-M01-14BK	6/5/2000	51	<0.7	<5	170	155
FSW 424-M01-15W	6/5/2000	59	<0.7	<5	165	174
FSW 424-M02-01PT (72-13)	6/6/2000	<5	<0.7	<5	416	75
FSW 424-M02-02GNT (72-13)	6/6/2000	<5	<0.7	<5	328	34
FSW 424-M02-02GNT (72-13)-D	6/6/2000	<5	<0.7	<5	621	57
FSW 424-M02-03RT (72-13)	6/6/2000	<5	<0.7	<5	627	30
FSW 424-M02-04BUT (72-13)	6/6/2000	22	<0.7	<5	776	62
FSW 424-M02-05BKT (72-13)	6/6/2000	--	--	<5	--	--
FSW 424-M02-06WT (72-13)	6/6/2000	51	<0.7	<5	384	111
FSW 424-M02-07O (72-13)	6/6/2000	41	<0.7	<5	206	144
FSW 424-M02-07O (72-13)-D	6/6/2000	79	<0.7	<5	350	144
FSW 424-M02-08GY (72-13)	6/6/2000	80	<0.7	<5	383	179
FSW 424-M02-09Y (72-13)	6/6/2000	86	<0.7	<5	424	142
FSW 424-M02-10P (72-13)	6/6/2000	107	4.3	<5	565	191
FSW 424-M02-11GN (72-13)	6/6/2000	140	3.9	<5	823	227
FSW 424-M02-12R (72-13)	6/6/2000	94	2.1	<5	926	401
FSW 424-M02-13BU (72-13)	6/6/2000	36	1.3	<5	1048	218
FSW 424-M02-14BK (72-13)	6/6/2000	9	<0.7	<5	1219	128
FSW 424-M02-15W (72-13)	6/6/2000	--	--	<5	--	--
FSW 424-M01-01PT	7/19/2001	0	<0.7	4	673	154
FSW 424-M01-02GNT	7/19/2001	0	<0.7	25	803	133
FSW 424-M01-03RT	7/19/2001	0	<0.7	166	1175	123
FSW 424-M01-04BUT	7/19/2001	0	<0.7	175	1048	121
FSW 424-M01-05BKT	7/19/2001	0	<0.7	165	706	96
FSW 424-M01-06WT	7/19/2001	0	<0.7	41	436	85
FSW 424-M01-07O	7/19/2001	0	<0.7	29	407	81
FSW 424-M01-08GY	7/19/2001	45	<0.7	25	271	86

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-09Y	7/19/2001	140	<0.7	21	285	70
FSW 424-M01-10P	7/19/2001	61	<0.7	2	327	71
FSW 424-M01-11GN	7/19/2001	60	<0.7	2	317	76
FSW 424-M01-11GN-D	7/19/2001	59	<0.7	3	319	76
FSW 424-M01-12R	7/19/2001	54	<0.7	2	239	111
FSW 424-M01-13BU	7/19/2001	52	<0.7	2	182	145
FSW 424-M01-14BK	7/19/2001	49	<0.7	2	174	171
FSW 424-M01-15W	7/19/2001	63	<0.7	2	148	203
FSW 424-M02-01PT (72-13)	7/19/2001	0	<0.7	2	1258	56
FSW 424-M02-02GNT (72-13)	7/19/2001	0	<0.7	3	1009	47
FSW 424-M02-03RT (72-13)	7/19/2001	0	<0.7	2	630	49
FSW 424-M02-04BUT (72-13)	7/19/2001	13	<0.7	2	512	55
FSW 424-M02-05BKT (72-13)	7/19/2001	24	<0.7	3	331	71
FSW 424-M02-06WT (72-13)	7/19/2001	59	<0.7	1	281	94
FSW 424-M02-07O (72-13)	7/19/2001	99	<0.7	3	318	108
FSW 424-M02-07O (72-13)-D	7/19/2001	101	<0.7	2	321	108
FSW 424-M02-08GY (72-13)	7/19/2001	154	<0.7	2	393	121
FSW 424-M02-09Y (72-13)	7/19/2001	221	<0.7	4	513	125
FSW 424-M02-10P (72-13)	7/19/2001	289	2.1	3	630	121
FSW 424-M02-11GN (72-13)	7/19/2001	334	6.1	5	792	126
FSW 424-M02-12R (72-13)	7/19/2001	315	<0.7	6	1071	138
FSW 424-M02-13BU (72-13)	7/19/2001	292	<0.7	10	1162	139
FSW 424-M02-14BK (72-13)	7/19/2001	269	<0.7	4	1232	144
FSW 424-M02-15W (72-13)	7/19/2001	83	<0.7	5	1024	151
FSW 424-M01-01PT	7/9/2002	343	<0.7	<5	1058	165
FSW 424-M01-02GNT	7/9/2002	395	<0.7	17	1329	152
FSW 424-M01-03RT	7/9/2002	397	<0.7	157	1349	182
FSW 424-M01-04BUT	7/9/2002	0	<0.7	157	1313	136
FSW 424-M01-04BUT-D	7/9/2002	0	<0.7	157	1299	137
FSW 424-M01-05BKT	7/9/2002	4	<0.7	157	1179	109
FSW 424-M01-06WT	7/9/2002	0	<0.7	163	1023	59
FSW 424-M01-07O	7/9/2002	0	<0.7	105	910	52
FSW 424-M01-08GY	7/9/2002	0	<0.7	54	527	68
FSW 424-M01-09Y	7/9/2002	91	<0.7	42	300	85
FSW 424-M01-10P	7/9/2002	50	<0.7	1	190	105

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-11GN	7/9/2002	47	<0.7	4	190	116
FSW 424-M01-12R	7/9/2002	45	<0.7	1	180	125
FSW 424-M01-13BU	7/9/2002	45	<0.7	<5	193	141
FSW 424-M01-14BK	7/9/2002	47	<0.7	3	188	160
FSW 424-M01-15W	7/9/2002	51	<0.7	5	162	169
FSW 424-M02-01PT (72-13)	7/9/2002	--	--	--	--	--
FSW 424-M02-02GNT (72-13)	7/9/2002	0	<0.7	4	456	46
FSW 424-M02-03RT (72-13)	7/9/2002	4	<0.7	<5	370	43
FSW 424-M02-03RT (72-13)-D	7/9/2002	4	<0.7	<5	370	42
FSW 424-M02-04BUT (72-13)	7/9/2002	11	<0.7	<5	327	46
FSW 424-M02-05BKT (72-13)	7/9/2002	69	<0.7	6	356	63
FSW 424-M02-06WT (72-13)	7/9/2002	165	<0.7	1	554	126
FSW 424-M02-07O (72-13)	7/9/2002	191	<0.7	<5	718	146
FSW 424-M02-08GY (72-13)	7/9/2002	135	0.8	7	703	142
FSW 424-M02-09Y (72-13)	7/9/2002	58	5.8	<5	593	142
FSW 424-M02-10P (72-13)	7/9/2002	21	2.4	<5	534	167
FSW 424-M02-11GN (72-13)	7/9/2002	31	0.7	7	604	194
FSW 424-M02-12R (72-13)	7/9/2002	80	1.0	<5	749	208
FSW 424-M02-13BU (72-13)	7/9/2002	188	<0.7	2	909	203
FSW 424-M02-14BK (72-13)	7/9/2002	269	<0.7	8	1032	203
FSW 424-M02-15W (72-13)	7/9/2002	53	<0.7	4	1069	229
FSW 424-M01-01PT	5/29/2003	153	8.2	<5	1065	147
FSW 424-M01-02GNT	5/29/2003	0	<0.7	<5	1082	143
FSW 424-M01-02GNT-D	5/29/2003	0	<0.7	<5	1176	148
FSW 424-M01-03RT	5/29/2003	0	<0.7	118	1187	116
FSW 424-M01-04BUT	5/29/2003	0	<0.7	79	1107	116
FSW 424-M01-05BKT	5/29/2003	0	<0.7	69	1077	90
FSW 424-M01-06WT	5/29/2003	0	<0.7	87	1129	89
FSW 424-M01-07O	5/29/2003	0	<0.7	88	841	79
FSW 424-M01-08GY	5/29/2003	13	<0.7	63	540	95
FSW 424-M01-09Y	5/29/2003	100	<0.7	4	254	121
FSW 424-M01-10P	5/29/2003	47	<0.7	<5	200	117
FSW 424-M01-11GN	5/29/2003	47	<0.7	<5	189	114
FSW 424-M01-12R	5/29/2003	31	<0.7	<5	125	76
FSW 424-M01-13BU	5/29/2003	44	<0.7	<5	202	126

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-13BU-D	5/29/2003	44	<0.7	<5	201	126
FSW 424-M01-14BK	5/29/2003	43	<0.7	<5	195	138
FSW 424-M01-15W	5/29/2003	52	<0.7	<5	156	151
FSW 424-M02-01PT (72-13)	5/29/2003	0	<0.7	<5	497	71
FSW 424-M02-02GNT (72-13)	5/29/2003	0	<0.7	<5	2617	40
FSW 424-M02-03RT (72-13)	5/29/2003	7	<0.7	<5	2145	38
FSW 424-M02-04BUT (72-13)	5/29/2003	8	<0.7	<5	594	56
FSW 424-M02-05BKT (72-13)	5/29/2003	10	<0.7	<5	212	78
FSW 424-M02-06WT (72-13)	5/29/2003	30	<0.7	<5	225	86
FSW 424-M02-06WT (72-13)-D	5/29/2003	30	<0.7	<5	225	86
FSW 424-M02-07O (72-13)	5/29/2003	67	<0.7	<5	270	97
FSW 424-M02-08GY (72-13)	5/29/2003	135	<0.7	<5	329	110
FSW 424-M02-09Y (72-13)	5/29/2003	179	<0.7	<5	363	126
FSW 424-M02-09Y (72-13)-D	5/29/2003	180	<0.7	<5	365	126
FSW 424-M02-10P (72-13)	5/29/2003	278	<0.7	<5	516	181
FSW 424-M02-11GN (72-13)	5/29/2003	185	6.8	<5	770	182
FSW 424-M02-12R (72-13)	5/29/2003	267	9.7	<5	964	205
FSW 424-M02-13BU (72-13)	5/29/2003	269	12.5	<5	967	205
FSW 424-M02-14BK (72-13)	5/29/2003	187	<0.7	<5	918	178
FSW 424-M02-15W (72-13)	5/29/2003	119	<0.7	13	900	192
FSW 424-M01-01PT	7/29/2004	0	<0.7	<5	625	126
FSW 424-M01-02GNT	7/29/2004	0	<0.7	86	792	123
FSW 424-M01-03RT	7/29/2004	0	<0.7	63	852	90
FSW 424-M01-04BUT	7/29/2004	0	<0.7	37	839	65
FSW 424-M01-05BKT	7/29/2004	0	<0.7	35	365	69
FSW 424-M01-06WT	7/29/2004	0	<0.7	60	326	72
FSW 424-M01-07O	7/29/2004	17	<0.7	57	275	77
FSW 424-M01-08GY	7/29/2004	90	<0.7	25	159	82
FSW 424-M01-09Y	7/29/2004	47	<0.7	<5	163	93
FSW 424-M01-09Y-D	7/29/2004	46	<0.7	<5	156	90
FSW 424-M01-10P	7/29/2004	40	<0.7	<5	169	106
FSW 424-M01-11GN	7/29/2004	37	<0.7	<5	173	120
FSW 424-M01-12R	7/29/2004	37	<0.7	<5	170	133
FSW 424-M01-13BU	7/29/2004	37	<0.7	<5	156	133
FSW 424-M01-14BK	7/29/2004	37	<0.7	<5	143	125

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 424-M01-15W	7/29/2004	39	<0.7	<5	140	122
FSW 424-M01-15W-D	7/29/2004	40	<0.7	<5	145	127
FSW 424-M02-01PT	7/29/2004	0	<0.7	<5	1702	51
FSW 424-M02-02GNT	7/29/2004	0	<0.7	<5	1826	40
FSW 424-M02-03RT	7/29/2004	0	<0.7	<5	1388	44
FSW 424-M02-04BUT	7/29/2004	0	<0.7	<5	1096	47
FSW 424-M02-05BKT	7/29/2004	14	<0.7	<5	558	60
FSW 424-M02-06WT	7/29/2004	29	<0.7	<5	197	58
FSW 424-M02-07O	7/29/2004	53	<0.7	<5	175	76
FSW 424-M02-08GY	7/29/2004	69	<0.7	<5	216	83
FSW 424-M02-09Y	7/29/2004	88	<0.7	<5	243	114
FSW 424-M02-10P	7/29/2004	94	4.3	<5	277	139
FSW 424-M02-10P-D	7/29/2004	96	4.3	<5	282	142
FSW 424-M02-11GN	7/29/2004	99	8.4	<5	327	149
FSW 424-M02-12R	7/29/2004	89	17.5	<5	312	150
FSW 424-M02-15BK	7/29/2004	24	<0.7	<5	612	109
FSW 424-M02-W	7/29/2004	0	<0.7	<5	683	146
FSW 566-M01-01PT	12/8/1994	<5	<0.7	181	--	355
FSW 566-M01-02GNT	12/8/1994	<5	<0.7	229	--	352
FSW 566-M01-03RT	12/8/1994	--	--	--	--	--
FSW 566-M01-04BUT	12/8/1994	<5	<0.7	151	--	243
FSW 566-M01-05BKT	12/8/1994	<5	<0.7	176	--	206
FSW 566-M01-06WT	12/8/1994	<5	<0.7	133	--	113
FSW 566-M01-07O	12/8/1994	<5	<0.7	88	--	110
FSW 566-M01-08GY	12/8/1994	<5	<0.7	51	--	107
FSW 566-M01-09Y	12/8/1994	175	<0.7	19	--	85
FSW 566-M01-10P	12/8/1994	246	<0.7	10	--	95
FSW 566-M01-10P-D	12/8/1994	248	<0.7	9	--	96
FSW 566-M01-11GN	12/8/1994	79	<0.7	20	--	113
FSW 566-M01-12R	12/8/1994	77	<0.7	13	--	104
FSW 566-M01-13BU	12/8/1994	136	<0.7	15	--	114
FSW 566-M01-14BK	12/8/1994	214	<0.7	226	--	120
FSW 566-M01-15W	12/8/1994	211	<0.7	276	--	159
FSW 566-M02-01PT (65-12)	12/8/1994	<5	<0.7	8	--	--

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-02GNT (65-12)	12/8/1994	<5	<0.7	8		56
FSW 566-M02-03RT (65-12)	12/9/1994	65	<0.7	8		105
FSW 566-M02-04BUT (65-12)	12/9/1994	403	<0.7	9		153
FSW 566-M02-05BKT (65-12)	12/9/1994	1081	<0.7	11		197
FSW 566-M02-06WT (65-12)	12/9/1994	1565	6.4	12		224
FSW 566-M02-07O (65-12)	12/9/1994	1616	17.9	12		255
FSW 566-M02-08GY (65-12)	12/9/1994	1437	33.6	10		263
FSW 566-M02-09Y (65-12)	12/9/1994	1493	40.7	11		277
FSW 566-M02-10P (65-12)	12/9/1994	1472	47.9	10		284
FSW 566-M02-11GN (65-12)	12/9/1994	1602	53.6	10		278
FSW 566-M02-11GN (65-12)-D	12/9/1994	1584	53.6	11		282
FSW 566-M02-12R (65-12)	12/9/1994	1444	62.1	21	--	277
FSW 566-M02-13BU (65-12)	12/9/1994	453	27.9	11	--	300
FSW 566-M02-14BK (65-12)	12/9/1994	21	<0.7	71	--	333
FSW 566-M02-15W (65-12)	12/9/1994	<5	<0.7	149	--	353
FSW 566-M01-01PT	7/11/1996	356	<0.7	127	1316	253
FSW 566-M01-02GNT	7/11/1996	<5	<0.7	158	1315	256
FSW 566-M01-03RT	7/11/1996	--	--	--	1291	--
FSW 566-M01-04BUT	7/11/1996	<5	<0.7	101	1079	276
FSW 566-M01-05BKT	7/11/1996	<5	<0.7	89	777	227
FSW 566-M01-06WT	7/11/1996	<5	<0.7	87	584	172
FSW 566-M01-07O	7/11/1996	<5	<0.7	75	524	155
FSW 566-M01-08GY	7/11/1996	8	<0.7	41	614	86
FSW 566-M01-08GY-D	7/11/1996	8	<0.7	33	594	86
FSW 566-M01-09Y	7/11/1996	8	<0.7	44	592	86
FSW 566-M01-10P	7/11/1996	71	<0.7	<5	655	98
FSW 566-M01-11GN	7/11/1996	56	<0.7	<5	701	111
FSW 566-M01-12R	7/11/1996	61	<0.7	<5	572	82
FSW 566-M01-13BU	7/11/1996	84	<0.7	<5	248	111
FSW 566-M01-14BK	7/11/1996	194	<0.7	<5	171	175
FSW 566-M01-15W	7/11/1996	203	<0.7	96	179	160
FSW 566-M02-01PT (65-12)	7/11/1996	<5	<0.7	<5	98	48
FSW 566-M02-02GNT (65-12)	7/11/1996	<5	<0.7	<5	91	46
FSW 566-M02-02GNT (65-12)-D	7/11/1996	<5	<0.7	<5	93	46
FSW 566-M02-03RT (65-12)	7/11/1996	<5	<0.7	<5	101	54

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-04BUT (65-12)	7/11/1996	68	<0.7	<5	221	53
FSW 566-M02-05BKT (65-12)	7/11/1996	221	<0.7	<5	398	48
FSW 566-M02-06WT (65-12)	7/11/1996	477	<0.7	<5	611	60
FSW 566-M02-07O (65-12)	7/11/1996	1163	38.0	<5	1328	287
FSW 566-M02-08GY (65-12)	7/11/1996	695	2.0	<5	863	139
FSW 566-M02-09Y (65-12)	7/11/1996	803	7.2	<5	946	197
FSW 566-M02-10P (65-12)	7/11/1996	901	16.2	<5	874	227
FSW 566-M02-11GN (65-12)	7/11/1996	1285	24.7	<5	1315	284
FSW 566-M02-11GN (65-12)-D	7/11/1996	1289	24.7	<5	1291	287
FSW 566-M02-12R (65-12)	7/11/1996	1182	37.8	<5	1401	289
FSW 566-M02-13BU (65-12)	7/11/1996	862	44.5	<5	1426	290
FSW 566-M02-14BK (65-12)	7/11/1996	957	32.1	<5	1429	293
FSW 566-M02-15W (65-12)	7/11/1996	1068	<0.7	67	1447	292
FSW 566-M01-01PT	6/5/1997	621	<0.7	83	1405	296
FSW 566-M01-01PT-D	6/5/1997	624	<0.7	78	1402	295
FSW 566-M01-02GNT	6/5/1997	<5	<0.7	155	1506	317
FSW 566-M01-03RT	6/5/1997	--	--	--	--	--
FSW 566-M01-04BUT	6/5/1997	<5	<0.7	135	1514	292
FSW 566-M01-05BKT	6/5/1997	<5	<0.7	148	1513	286
FSW 566-M01-06WT	6/5/1997	<5	<0.7	130	1540	270
FSW 566-M01-07O	6/5/1997	<5	<0.7	98	1269	225
FSW 566-M01-08GY	6/5/1997	14	<0.7	41	1054	215
FSW 566-M01-09Y	6/5/1997	244	4.5	11	790	212
FSW 566-M01-10P	6/5/1997	167	<0.7	10	619	106
FSW 566-M01-10P-D	6/5/1997	166	<0.7	--	612	108
FSW 566-M01-11GN	6/5/1997	58	<0.7	7	490	103
FSW 566-M01-12R	6/5/1997	60	<0.7	5	279	124
FSW 566-M01-13BU	6/5/1997	82	<0.7	5	176	124
FSW 566-M01-14BK	6/5/1997	164	<0.7	7	183	127
FSW 566-M01-15W	6/5/1997	179	<0.7	<5	181	192
FSW 566-M02-01PT (65-12)	6/6/1997	<5	<0.7	<5	98	35
FSW 566-M02-02GNT (65-12)	6/6/1997	18	<0.7	6	126	28
FSW 566-M02-03RT (65-12)	6/6/1997	7	<0.7	6	147	70
FSW 566-M02-04BUT (65-12)	6/6/1997	53	<0.7	9	261	77
FSW 566-M02-04BUT (65-12)-D	6/6/1997	52	<0.7	10	266	80

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-05BKT (65-12)	6/6/1997	377	<0.7	10	594	79
FSW 566-M02-06WT (65-12)	6/6/1997	878	<0.7	18	867	104
FSW 566-M02-07O (65-12)	6/6/1997	1063	<0.7	15	868	170
FSW 566-M02-08GY (65-12)	6/6/1997	1377	0.9	21	1185	207
FSW 566-M02-09Y (65-12)	6/6/1997	1450	0.9	17	1343	241
FSW 566-M02-10P (65-12)	6/6/1997	1420	2.1	21	1413	248
FSW 566-M02-11GN (65-12)	6/6/1997	1324	6.3	20	1402	241
FSW 566-M02-12R (65-12)	6/6/1997	1360	20.0	20	1443	252
FSW 566-M02-13BU (65-12)	6/6/1997	1301	26.3	27	1459	253
FSW 566-M02-13BU (65-12)-D	6/6/1997	1297	26.3	25	1445	260
FSW 566-M02-14BK (65-12)	6/6/1997	1353	26.5	28	1566	286
FSW 566-M02-15W (65-12)	6/6/1997	1165	34.9	27	1447	292
FSW 566-M01-01PT	5/13/1998	739	29.3	<5	1408	285
FSW 566-M01-02GNT	5/13/1998	48	<0.7	98	1446	267
FSW 566-M01-03RT	5/13/1998	<5	<0.7	145	1477	301
FSW 566-M01-04BUT	5/13/1998	<5	<0.7	184	1489	263
FSW 566-M01-05BKT	5/13/1998	<5	<0.7	185	1345	275
FSW 566-M01-06WT	5/13/1998	<5	<0.7	137	1418	252
FSW 566-M01-06WT-D	5/13/1998	<5	<0.7	139	1408	252
FSW 566-M01-07O	5/13/1998	135	<0.7	30	1308	266
FSW 566-M01-08GY	5/13/1998	452	<0.7	29	1214	279
FSW 566-M01-09Y	5/13/1998	308	3.7	<5	777	268
FSW 566-M01-10P	5/13/1998	74	<0.7	<5	254	163
FSW 566-M01-11GN	5/13/1998	48	<0.7	<5	189	138
FSW 566-M01-12R	5/13/1998	69	<0.7	<5	232	139
FSW 566-M01-13BU	5/13/1998	58	<0.7	<5	187	144
FSW 566-M01-14BK	5/13/1998	137	<0.7	8	178	191
FSW 566-M01-15W	5/13/1998	161	<0.7	<5	188	190
FSW 566-M01-15W-D	5/13/1998	160	<0.7	<5	194	190
FSW 566-M02-01PT (65-12)	5/13/1998	<5	<0.7	<5	97	41
FSW 566-M02-02GNT (65-12)	5/13/1998	<5	<0.7	<5	89	66
FSW 566-M02-03RT (65-12)	5/13/1998	6	<0.7	7	139	110
FSW 566-M02-04BUT (65-12)	5/13/1998	51	<0.7	5	248	79
FSW 566-M02-05BKT (65-12)	5/13/1998	186	<0.7	<5	328	72
FSW 566-M02-06WT (65-12)	5/13/1998	439	<0.7	<5	522	129

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-07O (65-12)	5/13/1998	690	1.5	<5	787	170
FSW 566-M02-08GY (65-12)	5/13/1998	965	1.1	<5	1044	217
FSW 566-M02-09Y (65-12)	5/13/1998	1173	1.3	<5	1284	229
FSW 566-M02-09Y (65-12)-D	5/13/1998	1159	1.3	<5	1304	230
FSW 566-M02-10P (65-12)	5/13/1998	1192	2.8	<5	1478	238
FSW 566-M02-11GN (65-12)	5/13/1998	1155	12.6	<5	1486	251
FSW 566-M02-12R (65-12)	5/13/1998	1022	24.7	<5	1473	260
FSW 566-M02-13BU (65-12)	5/13/1998	729	24.1	<5	1571	272
FSW 566-M02-14BK (65-12)	5/13/1998	769	33.9	<5	1483	274
FSW 566-M02-15W (65-12)	5/13/1998	701	52.3	<5	1446	279
FSW 566-M01-01PT	6/10/1999	<5	2.2	<5	691	178
FSW 566-M01-02GNT	6/10/1999	<5	<0.7	15	702	105
FSW 566-M01-03RT	6/10/1999	<5	<0.7	70	680	88
FSW 566-M01-04BUT	6/10/1999	<5	<0.7	55	733	125
FSW 566-M01-04BUT-D	6/10/1999	<5	<0.7	51	728	124
FSW 566-M01-05BKT	6/10/1999	<5	<0.7	71	654	122
FSW 566-M01-06WT	6/10/1999	<5	<0.7	40	411	111
FSW 566-M01-07O	6/10/1999	52	<0.7	8	350	85
FSW 566-M01-08GY	6/10/1999	67	1.1	<5	285	81
FSW 566-M01-09Y	6/10/1999	49	<0.7	<5	181	99
FSW 566-M01-10P	6/10/1999	42	<0.7	<5	168	137
FSW 566-M01-10P-D	6/10/1999	42	<0.7	<5	173	137
FSW 566-M01-11GN	6/10/1999	41	<0.7	<5	175	158
FSW 566-M01-12R	6/10/1999	44	<0.7	12	161	169
FSW 566-M01-13BU	6/10/1999	63	<0.7	<5	156	154
FSW 566-M01-14BK	6/10/1999	75	<0.7	<5	162	167
FSW 566-M01-15W	6/10/1999	174	<0.7	<5	169	193
FSW 566-M02-01PT (65-12)	6/10/1999	<5	<0.7	<5	100	51
FSW 566-M02-02GNT (65-12)	6/10/1999	<5	<0.7	6	153	76
FSW 566-M02-03RT (65-12)	6/10/1999	19	<0.7	5	234	69
FSW 566-M02-04BUT (65-12)	6/10/1999	86	<0.7	<5	275	84
FSW 566-M02-05BKT (65-12)	6/10/1999	248	<0.7	7	363	115
FSW 566-M02-06WT (65-12)	6/10/1999	422	5.5	<5	417	139
FSW 566-M02-07O (65-12)	6/10/1999	553	<0.7	<5	558	145
FSW 566-M02-08GY (65-12)	6/10/1999	433	<0.7	8	667	143

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-09Y (65-12)	6/10/1999	155	<0.7	<5	658	152
FSW 566-M02-10P (65-12)	6/10/1999	63	1.1	6	692	142
FSW 566-M02-11GN (65-12)	6/10/1999	16	3.3	<5	819	115
FSW 566-M02-11GN (65-12)-D	6/10/1999	16	3.6	<5	819	116
FSW 566-M02-12R (65-12)	6/10/1999	15	5.3	<5	1176	108
FSW 566-M02-13BU (65-12)	6/10/1999	11	7.0	<5	990	112
FSW 566-M02-13BU (65-12)-D	6/10/1999	12	6.8	<5	1067	118
FSW 566-M02-14BK (65-12)	6/10/1999	9	5.6	<5	692	135
FSW 566-M02-15W (65-12)	6/10/1999	16	14.2	<5	716	168
FSW 566-M01-01PT	6/1/2000	<5	<0.7	<5	460	159
FSW 566-M01-02GNT	6/1/2000	<5	<0.7	52	658	182
FSW 566-M01-03RT	6/1/2000	<5	<0.7	78	720	191
FSW 566-M01-04BUT	6/1/2000	<5	<0.7	32	377	122
FSW 566-M01-05BKT	6/1/2000	<5	<0.7	29	284	96
FSW 566-M01-06WT	6/1/2000	<5	<0.7	22	302	77
FSW 566-M01-06WT-D	6/1/2000	<5	<0.7	--	301	77
FSW 566-M01-07O	6/1/2000	22	0.8	<5	298	75
FSW 566-M01-08GY	6/1/2000	39	<0.7	<5	284	77
FSW 566-M01-09Y	6/1/2000	50	<0.7	<5	209	98
FSW 566-M01-10P	6/1/2000	45	<0.7	<5	183	112
FSW 566-M01-11GN	6/1/2000	38	<0.7	<5	196	163
FSW 566-M01-12R	6/1/2000	43	<0.7	<5	195	189
FSW 566-M01-13BU	6/1/2000	53	<0.7	<5	167	210
FSW 566-M01-14BK	6/1/2000	68	<0.7	<5	171	214
FSW 566-M01-15W	6/1/2000	115	<0.7	<5	182	220
FSW 566-M02-01PT (65-12)	6/1/2000	<5	<0.7	<5	124	32
FSW 566-M02-02GNT (65-12)	6/1/2000	<5	<0.7	<5	113	39
FSW 566-M02-03RT (65-12)	6/1/2000	<5	<0.7	<5	151	46
FSW 566-M02-04BUT (65-12)	6/1/2000	52	<0.7	<5	194	54
FSW 566-M02-05BKT (65-12)	6/1/2000	170	<0.7	<5	194	65
FSW 566-M02-06WT (65-12)	6/1/2000	221	<0.7	<5	206	87
FSW 566-M02-07O (65-12)	6/1/2000	95	<0.7	<5	287	134
FSW 566-M02-08GY (65-12)	6/1/2000	31	<0.7	13	370	124
FSW 566-M02-09Y (65-12)	6/1/2000	<5	<0.7	14	432	100
FSW 566-M02-10P (65-12)	6/1/2000	<5	<0.7	<5	450	81

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-10P (65-12)-D	6/1/2000	<5	<0.7	<5	446	80
FSW 566-M02-11GN (65-12)	6/1/2000	<5	<0.7	<5	473	84
FSW 566-M02-12R (65-12)	6/1/2000	<5	<0.7	<5	448	92
FSW 566-M02-12R (65-12)-D	6/1/2000	<5	<0.7	<5	448	92
FSW 566-M02-13BU (65-12)	6/1/2000	<5	<0.7	<5	428	91
FSW 566-M02-14BK (65-12)	6/1/2000	<5	<0.7	<5	474	112
FSW 566-M02-15W (65-12)	6/1/2000	<5	<0.7	<5	470	128
FSW 566-M01-01PT	7/15/2002	<5	<0.7	14	662	118
FSW 566-M01-02GNT	7/15/2002	<5	<0.7	24	705	147
FSW 566-M01-03RT	7/15/2002	<5	<0.7	19	559	174
FSW 566-M01-04BUT	7/15/2002	<5	<0.7	13	332	153
FSW 566-M01-04BUT-D	7/15/2002	<5	<0.7	12	333	154
FSW 566-M01-05BKT	7/15/2002	<5	<0.7	15	266	135
FSW 566-M01-06WT	7/15/2002	<5	<0.7	16	218	120
FSW 566-M01-07O	7/15/2002	33	<0.7	<5	219	113
FSW 566-M01-08GY	7/15/2002	40	<0.7	<5	207	109
FSW 566-M01-09Y	7/15/2002	39	<0.7	7	177	111
FSW 566-M01-10P	7/15/2002	37	<0.7	<5	180	123
FSW 566-M01-11GN	7/15/2002	33	<0.7	<5	191	149
FSW 566-M01-12R	7/15/2002	38	<0.7	<5	187	161
FSW 566-M01-13BU	7/15/2002	37	<0.7	<5	173	151
FSW 566-M01-14BK	7/15/2002	48	<0.7	<5	177	163
FSW 566-M01-15W	7/15/2002	59	<0.7	<5	182	156
FSW 566-M02-01PT (65-12)	7/15/2002	<5	<0.7	<5	95	34
FSW 566-M02-02GNT (65-12)	7/15/2002	<5	<0.7	--	88	39
FSW 566-M02-03RT (65-12)	7/15/2002	<5	<0.7	--	120	50
FSW 566-M02-04BUT (65-12)	7/15/2002	18	<0.7	<5	261	57
FSW 566-M02-05BKT (65-12)	7/15/2002	104	<0.7	<5	271	67
FSW 566-M02-05BKT (65-12)-D	7/15/2002	105	<0.7	<5	269	67
FSW 566-M02-06WT (65-12)	7/15/2002	186	<0.7	<5	264	93
FSW 566-M02-07O (65-12)	7/15/2002	239	<0.7	6	361	145
FSW 566-M02-08GY (65-12)	7/15/2002	276	5.8	<5	576	178
FSW 566-M02-09Y (65-12)	7/15/2002	289	12.7	<5	832	181
FSW 566-M02-10P (65-12)	7/15/2002	227	16.0	<5	829	152
FSW 566-M02-11GN (65-12)	7/15/2002	118	15.7	<5	679	146

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-12R (65-12)	7/15/2002	61	<0.7	14	594	150
FSW 566-M02-13BU (65-12)	7/15/2002	112	<0.7	21	713	159
FSW 566-M02-14BK (65-12)	7/15/2002	142	8.6	6	794	150
FSW 566-M02-15W (65-12)	7/15/2002	157	30.7	<5	893	124
FSW 566-M01-01PT	8/17/2004	<5	<0.7	13	1138	71
FSW 566-M01-02GNT	8/17/2004	<5	<0.7	30	1223	78
FSW 566-M01-03RT	8/17/2004	<5	<0.7	73	1122	113
FSW 566-M01-04BUT	8/17/2004	<5	<0.7	28	851	97
FSW 566-M01-04BUT-D	8/17/2004	<5	<0.7	29	848	96
FSW 566-M01-05BKT	8/17/2004	<5	<0.7	8	780	89
FSW 566-M01-06WT	8/17/2004	<5	<0.7	<5	284	82
FSW 566-M01-07O	8/17/2004	45	<0.7	<5	188	88
FSW 566-M01-08GY	8/17/2004	39	<0.7	<5	152	101
FSW 566-M01-09Y	8/17/2004	35	<0.7	<5	161	123
FSW 566-M01-10P	8/17/2004	35	<0.7	<5	183	149
FSW 566-M01-11GN	8/17/2004	31	<0.7	<5	184	153
FSW 566-M01-11GN-D	8/17/2004	35	<0.7	<5	161	131
FSW 566-M01-12R	8/17/2004	31	<0.7	<5	183	152
FSW 566-M01-13BU	8/17/2004	35	<0.7	<5	166	121
FSW 566-M01-14BK	8/17/2004	39	<0.7	<5	173	112
FSW 566-M01-15W	8/17/2004	47	<0.7	<5	176	119
FSW 566-M02-01PT (65-12)	8/17/2004	<5	<0.7	<5	56	29
FSW 566-M02-02GNT (65-12)	8/17/2004	<5	<0.7	<5	74	35
FSW 566-M02-03RT (65-12)	8/17/2004	<5	<0.7	<5	123	39
FSW 566-M02-04BUT (65-12)	8/17/2004	25	<0.7	<5	166	47
FSW 566-M02-05BKT (65-12)	8/17/2004	127	<0.7	<5	186	68
FSW 566-M02-06WT (65-12)	8/17/2004	139	<0.7	<5	223	96
FSW 566-M02-07O (65-12)	8/17/2004	56	1.3	<5	314	108
FSW 566-M02-08GY (65-12)	8/17/2004	20	1.3	<5	331	104
FSW 566-M02-09Y (65-12)	8/17/2004	9	<0.7	<5	321	98
FSW 566-M02-10P (65-12)	8/17/2004	<5	<0.7	<5	277	100
FSW 566-M02-11GN (65-12)	8/17/2004	<5	<0.7	<5	273	108
FSW 566-M02-12R (65-12)	8/17/2004	<5	<0.7	<5	279	99
FSW 566-M02-13BU (65-12)	8/17/2004	<5	<0.7	10	310	100
FSW 566-M02-13BU (65-12)-D	8/17/2004	<5	<0.7	11	305	99

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 566-M02-14BK (65-12)	8/17/2004	<5	<0.7	15	365	105
FSW 566-M02-15W (65-12)	8/17/2004	<5	<0.7	21	613	89
FSW 575-M01-01PT	7/10/1996	144	53.8	<5	1477	353
FSW 575-M01-02GNT	7/10/1996	53	<0.7	109	1504	327
FSW 575-M01-03RT	7/10/1996	<5	<0.7	138	1583	312
FSW 575-M01-04BUT	7/10/1996	<5	<0.7	178	1473	298
FSW 575-M01-05BKT	7/10/1996	<5	<0.7	165	1587	274
FSW 575-M01-05BKT-D	7/10/1996	<5	<0.7	154	1494	264
FSW 575-M01-06WT	7/10/1996	<5	<0.7	170	1534	260
FSW 575-M01-07O	7/10/1996	<5	<0.7	155	1265	234
FSW 575-M01-08GY	7/10/1996	<5	<0.7	90	1204	340
FSW 575-M01-09Y	7/10/1996	234	11.3	31	1062	200
FSW 575-M01-10P	7/10/1996	283	<0.7	15	746	220
FSW 575-M01-11GN	7/10/1996	39	<0.7	6	456	147
FSW 575-M01-12R	7/10/1996	48	<0.7	<5	309	153
FSW 575-M01-13BU	7/10/1996	48	<0.7	<5	241	169
FSW 575-M01-14BK	7/10/1996	57	<0.7	<5	294	129
FSW 575-M01-14BK-D	7/10/1996	57	<0.7	<5	290	129
FSW 575-M01-15W	7/10/1996	48	<0.7	<5	236	169
FSW 575-M02-01PT (44-19)	7/10/1996	<5	<0.7	13	91	52
FSW 575-M02-02GNT (44-19)	7/10/1996	8	<0.7	20	122	50
FSW 575-M02-03RT (44-19)	7/10/1996	162	<0.7	24	245	109
FSW 575-M02-04BUT (44-19)	7/10/1996	554	<0.7	17	390	182
FSW 575-M02-05BKT (44-19)	7/10/1996	1174	<0.7	<5	559	238
FSW 575-M02-06WT (44-19)	7/10/1996	1420	1.1	<5	946	269
FSW 575-M02-07O (44-19)	7/10/1996	1596	0.8	<5	1089	271
FSW 575-M02-08GY (44-19)	7/10/1996	1462	1.2	16	1288	282
FSW 575-M02-09Y (44-19)	7/10/1996	1262	0.9	<5	1429	289
FSW 575-M02-10P (44-19)	7/10/1996	1271	5.1	<5	1379	279
FSW 575-M02-11GN (44-19)	7/10/1996	1218	6.7	<5	1359	276
FSW 575-M02-12R (44-19)	7/10/1996	1255	14.0	21	1424	286
FSW 575-M02-13BU (44-19)	7/10/1996	1235	18.3	<5	1401	287
FSW 575-M02-14BK (44-19)	7/10/1996	1315	30.1	13	1297	278
FSW 575-M02-15W (44-19)	7/10/1996	1108	46.6	<5	1380	280

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-01PT	6/18/1997	713	69.6	<5	1367	296
FSW 575-M01-02GNT	6/18/1997	437	62.8	<5	1307	295
FSW 575-M01-03RT	6/18/1997	<5	<0.7	102	1459	279
FSW 575-M01-04BUT	6/18/1997	<5	<0.7	111	1502	282
FSW 575-M01-05BKT	6/18/1997	<5	<0.7	100	1415	294
FSW 575-M01-06WT	6/18/1997	<5	<0.7	90	1325	239
FSW 575-M01-07O	6/18/1997	<5	<0.7	94	1427	248
FSW 575-M01-07O-D	6/18/1997	<5	<0.7	95	1445	250
FSW 575-M01-08GY	6/18/1997	308	<0.7	31	1272	251
FSW 575-M01-09Y	6/18/1997	476	4.5	14	1399	273
FSW 575-M01-10P	6/18/1997	617	<0.7	18	830	208
FSW 575-M01-11GN	6/18/1997	79	<0.7	<5	405	127
FSW 575-M01-12R	6/18/1997	49	<0.7	<5	277	139
FSW 575-M01-13BU	6/18/1997	39	<0.7	<5	218	144
FSW 575-M01-14BK	6/18/1997	56	<0.7	<5	178	130
FSW 575-M01-15W	6/18/1997	80	<0.7	<5	184	205
FSW 575-M02-01PT (44-19)	6/18/1997	9	<0.7	11	146	56
FSW 575-M02-01PT (44-19)-D	6/18/1997	8	<0.7	11	132	52
FSW 575-M02-02GNT (44-19)	6/18/1997	48	<0.7	<5	214	59
FSW 575-M02-03RT (44-19)	6/18/1997	60	<0.7	9	299	87
FSW 575-M02-04BUT (44-19)	6/18/1997	360	<0.7	6	505	105
FSW 575-M02-05BKT (44-19)	6/18/1997	501	<0.7	7	678	163
FSW 575-M02-06WT (44-19)	6/18/1997	1014	<0.7	6	1359	246
FSW 575-M02-07O (44-19)	6/18/1997	1108	<0.7	18	1428	253
FSW 575-M02-08GY (44-19)	6/18/1997	1120	<0.7	13	1399	250
FSW 575-M02-09Y (44-19)	6/18/1997	1177	1.1	10	1401	267
FSW 575-M02-10P (44-19)	6/18/1997	1161	17.2	11	1375	278
FSW 575-M02-10P (44-19)-D	6/18/1997	1155	17.4	9	1368	265
FSW 575-M02-11GN (44-19)	6/18/1997	1073	24.4	7	1379	305
FSW 575-M02-12R (44-19)	6/18/1997	1045	4.6	18	1473	289
FSW 575-M02-13BU (44-19)	6/18/1997	985	4.3	10	1479	294
FSW 575-M02-14BK (44-19)	6/18/1997	914	15.2	8	1449	303
FSW 575-M02-15W (44-19)	6/18/1997	933	39.1	13	1482	309
FSW 575-M01-01PT	6/3/1998	362	47.9	5	1350	294
FSW 575-M01-02GNT	6/3/1998	349	73.7	<5	1419	291

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-03RT	6/3/1998	144	56.0	11	1004	246
FSW 575-M01-03RT-D	6/3/1998	143	59.0	7	1018	248
FSW 575-M01-04BUT	6/3/1998	<5	<0.7	8	870	222
FSW 575-M01-05BKT	6/3/1998	<5	<0.7	6	889	158
FSW 575-M01-06WT	6/3/1998	<5	<0.7	14	881	188
FSW 575-M01-07O	6/3/1998	<5	<0.7	29	714	153
FSW 575-M01-08GY	6/3/1998	17	4.1	13	500	119
FSW 575-M01-09Y	6/3/1998	49	2.8	23	278	104
FSW 575-M01-10P	6/3/1998	103	<0.7	17	359	89
FSW 575-M01-11GN	6/3/1998	39	<0.7	15	165	134
FSW 575-M01-12R	6/3/1998	36	<0.7	<5	168	161
FSW 575-M01-12R-D	6/3/1998	36	<0.7	<5	166	161
FSW 575-M01-13BU	6/3/1998	37	<0.7	<5	158	177
FSW 575-M01-14BK	6/3/1998	48	<0.7	<5	153	166
FSW 575-M01-15W	6/3/1998	57	<0.7	<5	162	182
FSW 575-M02-01PT (44-19)	6/3/1998	20	<0.7	<5	124	48
FSW 575-M02-02GNT (44-19)	6/3/1998	24	<0.7	<5	188	74
FSW 575-M02-03RT (44-19)	6/3/1998	111	<0.7	10	204	97
FSW 575-M02-04BUT (44-19)	6/3/1998	392	<0.7	<5	169	112
FSW 575-M02-05BKT (44-19)	6/3/1998	625	<0.7	6	231	146
FSW 575-M02-06WT (44-19)	6/3/1998	636	2.3	8	382	168
FSW 575-M02-06WT (44-19)-D	6/3/1998	626	2.1	7	376	167
FSW 575-M02-07O (44-19)	6/3/1998	522	<0.7	15	454	179
FSW 575-M02-08GY (44-19)	6/3/1998	361	<0.7	20	701	191
FSW 575-M02-09Y (44-19)	6/3/1998	333	9.7	6	919	184
FSW 575-M02-10P (44-19)	6/3/1998	348	22.7	<5	1004	185
FSW 575-M02-11GN (44-19)	6/3/1998	276	19.4	6	988	194
FSW 575-M02-12R (44-19)	6/3/1998	132	9.4	<5	881	178
FSW 575-M02-13BU (44-19)	6/3/1998	158	15.4	7	1020	173
FSW 575-M02-14BK (44-19)	6/3/1998	152	18.9	6	1009	149
FSW 575-M02-15W (44-19)	6/3/1998	270	29.3	11	1159	257
FSW 575-M01-01PT	6/7/1999	<5	<0.7	6	563	101
FSW 575-M01-02GNT	6/7/1999	<5	<0.7	9	617	103
FSW 575-M01-03RT	6/7/1999	<5	<0.7	<5	711	123
FSW 575-M01-04BUT	6/7/1999	<5	<0.7	9	886	125

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-05BKT	6/7/1999	<5	<0.7	10	796	114
FSW 575-M01-06WT	6/7/1999	<5	<0.7	8	550	146
FSW 575-M01-06WT-D	6/7/1999	<5	<0.7	9	546	145
FSW 575-M01-07O	6/7/1999	<5	<0.7	16	726	109
FSW 575-M01-08GY	6/7/1999	19	4.4	7	600	82
FSW 575-M01-09Y	6/7/1999	51	<0.7	<5	633	79
FSW 575-M01-09Y-D	6/7/1999	51	<0.7	<5	649	77
FSW 575-M01-10P	6/7/1999	47	<0.7	<5	234	99
FSW 575-M01-11GN	6/7/1999	38	<0.7	<5	174	174
FSW 575-M01-12R	6/7/1999	38	<0.7	<5	162	176
FSW 575-M01-13BU	6/7/1999	39	<0.7	<5	165	169
FSW 575-M01-14BK	6/7/1999	53	<0.7	<5	161	173
FSW 575-M01-15W	6/7/1999	54	<0.7	<5	164	193
FSW 575-M02-01PT (44-19)	6/7/1999	<5	<0.7	6	124	64
FSW 575-M02-02GNT (44-19)	6/7/1999	47	<0.7	8	184	78
FSW 575-M02-03RT (44-19)	6/7/1999	244	<0.7	<5	166	98
FSW 575-M02-04BUT (44-19)	6/7/1999	273	<0.7	<5	207	116
FSW 575-M02-05BKT (44-19)	6/7/1999	--	--	6	--	--
FSW 575-M02-06WT (44-19)	6/7/1999	252	5.0	8	813	126
FSW 575-M02-07O (44-19)	6/7/1999	249	5.9	7	803	124
FSW 575-M02-07O (44-19)-D	6/7/1999	188	6.0	7	776	146
FSW 575-M02-08GY (44-19)	6/7/1999	65	10.3	<5	362	152
FSW 575-M02-09Y (44-19)	6/7/1999	43	12.8	6	291	146
FSW 575-M02-10P (44-19)	6/7/1999	32	12.9	<5	330	134
FSW 575-M02-11GN (44-19)	6/7/1999	23	11.4	8	361	121
FSW 575-M02-12R (44-19)	6/7/1999	<5	1.4	7	474	97
FSW 575-M02-13BU (44-19)	6/7/1999	<5	<0.7	<5	491	101
FSW 575-M02-14BK (44-19)	6/7/1999	<5	<0.7	8	552	86
FSW 575-M02-15W (44-19)	6/7/1999	<5	<0.7	<5	506	74
FSW 575-M01-01PT	5/31/2000	<5	<0.7	<5	551	122
FSW 575-M01-02GNT	5/31/2000	<5	<0.7	<5	588	178
FSW 575-M01-03RT	5/31/2000	<5	<0.7	<5	708	189
FSW 575-M01-04BUT	5/31/2000	<5	<0.7	12	700	137
FSW 575-M01-05BKT	5/31/2000	<5	<0.7	<5	570	112
FSW 575-M01-06WT	5/31/2000	<5	<0.7	19	530	65

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-07O	5/31/2000	<5	<0.7	7	503	92
FSW 575-M01-08GY	5/31/2000	28	2.3	<5	342	68
FSW 575-M01-09Y	5/31/2000	56	<0.7	<5	511	58
FSW 575-M01-09Y-D	5/31/2000	55	<0.7	<5	510	58
FSW 575-M01-10P	5/31/2000	55	<0.7	<5	438	62
FSW 575-M01-11GN	5/31/2000	44	<0.7	<5	207	130
FSW 575-M01-12R	5/31/2000	43	<0.7	<5	177	170
FSW 575-M01-13BU	5/31/2000	46	<0.7	<5	164	172
FSW 575-M01-14BK	5/31/2000	48	<0.7	<5	169	151
FSW 575-M01-15W	5/31/2000	52	<0.7	<5	159	198
FSW 575-M02-01PT (44-19)	5/31/2000	<5	<0.7	<5	99	28
FSW 575-M02-02GNT (44-19)	5/31/2000	18	<0.7	<5	147	51
FSW 575-M02-03RT (44-19)	5/31/2000	73	<0.7	<5	172	67
FSW 575-M02-03RT (44-19)-D	5/31/2000	74	<0.7	<5	174	68
FSW 575-M02-04BUT (44-19)	5/31/2000	110	<0.7	<5	225	85
FSW 575-M02-05BKT (44-19)	5/31/2000	64	<0.7	<5	336	112
FSW 575-M02-06WT (44-19)	5/31/2000	21	2.7	<5	595	132
FSW 575-M02-07O (44-19)	5/31/2000	<5	2.9	<5	714	130
FSW 575-M02-08GY (44-19)	5/31/2000	42	15.2	<5	781	121
FSW 575-M02-09Y (44-19)	5/31/2000	145	35.8	<5	908	122
FSW 575-M02-10P (44-19)	5/31/2000	184	44.3	<5	910	109
FSW 575-M02-10P (44-19)-D	5/31/2000	184	43.6	<5	915	111
FSW 575-M02-11GN (44-19)	5/31/2000	212	33.5	<5	965	125
FSW 575-M02-12R (44-19)	5/31/2000	<5	3.3	<5	737	132
FSW 575-M02-13BU (44-19)	5/31/2000	<5	<0.7	12	646	87
FSW 575-M02-14BK (44-19)	5/31/2000	--	--	<5	--	--
FSW 575-M02-15W (44-19)	5/31/2000	<5	<0.7	<5	503	105
FSW 575-M01-01PT	7/11/2002	<5	<0.7	46	608	119
FSW 575-M01-02GNT	7/11/2002	<5	<0.7	43	649	154
FSW 575-M01-03RT	7/11/2002	<5	<0.7	38	629	145
FSW 575-M01-04BUT	7/11/2002	<5	<0.7	80	491	132
FSW 575-M01-05BKT	7/11/2002	<5	<0.7	111	475	167
FSW 575-M01-06WT	7/11/2002	<5	<0.7	95	625	163
FSW 575-M01-06WT-D	7/11/2002	<5	<0.7	95	583	155
FSW 575-M01-07O	7/11/2002	<5	<0.7	44	815	144

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-08GY	7/11/2002	<5	<0.7	<5	596	122
FSW 575-M01-09Y	7/11/2002	36	<0.7	<5	277	106
FSW 575-M01-10P	7/11/2002	37	<0.7	5	289	85
FSW 575-M01-11GN	7/11/2002	32	<0.7	18	209	148
FSW 575-M01-12R	7/11/2002	34	<0.7	5	193	152
FSW 575-M01-13BU	7/11/2002	35	<0.7	<5	169	143
FSW 575-M01-14BK	7/11/2002	32	<0.7	<5	185	136
FSW 575-M01-15W	7/11/2002	27	<0.7	<5	202	133
FSW 575-M02-01PT (44-19)	7/11/2002	8	<0.7	<5	74	44
FSW 575-M02-02GNT (44-19)	7/11/2002	20	<0.7	<5	178	67
FSW 575-M02-03RT (44-19)	7/11/2002	96	<0.7	<5	215	68
FSW 575-M02-04BUT (44-19)	7/11/2002	124	<0.7	<5	261	109
FSW 575-M02-05BKT (44-19)	7/11/2002	81	1.7	<5	360	136
FSW 575-M02-06WT (44-19)	7/11/2002	29	4.6	<5	413	133
FSW 575-M02-07O (44-19)	7/11/2002	30	5.2	<5	387	125
FSW 575-M02-08GY (44-19)	7/11/2002	7	2.3	<5	364	102
FSW 575-M02-09Y (44-19)	7/11/2002	<5	<0.7	<5	309	104
FSW 575-M02-09Y (44-19)-D	7/11/2002	<5	<0.7	<5	308	103
FSW 575-M02-10P (44-19)	7/11/2002	<5	<0.7	<5	297	112
FSW 575-M02-11GN (44-19)	7/11/2002	<5	1.4	<5	330	112
FSW 575-M02-12R (44-19)	7/11/2002	<5	8.1	<5	381	116
FSW 575-M02-13BU (44-19)	7/11/2002	<5	<0.7	11	320	133
FSW 575-M02-14BK (44-19)	7/11/2002	<5	<0.7	44	241	158
FSW 575-M02-15W (44-19)	7/11/2002	<5	<0.7	49	312	166
FSW 575-M01-01PT	8/30/2004	<5	<0.7	16	--	--
FSW 575-M01-01PT-D	8/30/2004	<5	<0.7	13	442	143
FSW 575-M01-02GNT	8/30/2004	<5	<0.7	20	640	102
FSW 575-M01-03RT	8/30/2004	<5	<0.7	35	716	129
FSW 575-M01-04BUT	8/30/2004	<5	<0.7	21	664	151
FSW 575-M01-05BKT	8/30/2004	<5	<0.7	30	693	141
FSW 575-M01-06WT	8/30/2004	<5	<0.7	20	775	91
FSW 575-M01-07O	8/30/2004	<5	<0.7	6	639	74
FSW 575-M01-08GY	8/30/2004	43	<0.7	<5	435	88
FSW 575-M01-08GY-D	8/30/2004	43	<0.7	<5	436	88
FSW 575-M01-09Y	8/30/2004	40	<0.7	<5	312	83

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 575-M01-10P	8/30/2004	31	<0.7	<5	166	110
FSW 575-M01-11GN	8/30/2004	26	<0.7	<5	164	124
FSW 575-M01-12R	8/30/2004	26	<0.7	<5	170	124
FSW 575-M01-13BU	8/30/2004	28	<0.7	<5	162	144
FSW 575-M01-14BK	8/30/2004	34	<0.7	<5	162	133
FSW 575-M01-15W	8/30/2004	31	<0.7	<5	166	127
FSW 575-M02-01PT (44-19)	8/30/2004	11	<0.7	<5	113	35
FSW 575-M02-02GNT (44-19)	8/30/2004	12	<0.7	<5	144	60
FSW 575-M02-02GNT (44-19)-D	8/30/2004	12	<0.7	<5	147	61
FSW 575-M02-03RT (44-19)	8/30/2004	31	<0.7	<5	209	63
FSW 575-M02-04BUT (44-19)	8/30/2004	108	<0.7	<5	179	78
FSW 575-M02-05BKT (44-19)	8/30/2004	198	<0.7	<5	136	104
FSW 575-M02-06WT (44-19)	8/30/2004	134	5.5	<5	167	131
FSW 575-M02-07O (44-19)	8/30/2004	87	9.4	<5	200	130
FSW 575-M02-08GY (44-19)	8/30/2004	22	7.3	<5	251	124
FSW 575-M02-09Y (44-19)	8/30/2004	11	2.7	<5	262	112
FSW 575-M02-10P (44-19)	8/30/2004	<5	<0.7	<5	271	106
FSW 575-M02-11GN (44-19)	8/30/2004	<5	<0.7	<5	358	94
FSW 575-M02-12R (44-19)	8/30/2004	<5	<0.7	<5	347	93
FSW 575-M02-13BU (44-19)	8/30/2004	<5	<0.7	<5	254	140
FSW 575-M02-14BK (44-19)	8/30/2004	<5	<0.7	<5	288	157
FSW 575-M02-15W (44-19)	8/30/2004	<5	<0.7	<5	390	150
FSW 577-0051	9/13/1995	--	--	--	--	--
FSW 577-0061	9/13/1995	1384	<0.7	40	1482	286
FSW 577-0071	9/13/1995	697	<0.7	379	979	224
FSW 577-0081	9/13/1995	957	5.7	<5	1327	294
FSW 577-0097	9/13/1995	763	11.2	<5	1139	219
FSW 577-0111	9/13/1995	503	1.6	<5	896	60
FSW 577-0126	9/13/1995	10	<0.7	<5	531	113
FSW 577-0142	9/13/1995	41	<0.7	<5	159	158
FSW 577-0051	12/6/1995	1325	<0.7	<5	1358	240
FSW 577-0061	12/6/1995	913	<0.7	<5	1255	286
FSW 577-0071	12/6/1995	1149	<0.7	287	1431	306
FSW 577-0081	12/7/1995	1114	2.6	80	1597	304

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 577-0097	12/7/1995	135	2.0	373	1726	304
FSW 577-0111	12/7/1995	1240	4.0	<5	1612	276
FSW 577-0126	12/7/1995	<5	<0.7	<5	749	117
FSW 577-0142	12/7/1995	41	<0.7	13	164	173
FSW 577-0142-D	12/7/1995	41	<0.7	15	165	174
FSW 577-0051	6/21/1996	365	<0.7	19	322	64
FSW 577-0061	6/21/1996	1643	6.7	29	1770	301
FSW 577-0071	6/21/1996	926	10.3	46	1634	286
FSW 577-0081	6/21/1996	547	<0.7	137	1582	282
FSW 577-0097	6/21/1996	378	<0.7	336	1605	300
FSW 577-0097-D	6/21/1996	363	<0.7	330	1553	297
FSW 577-0111	6/21/1996	215	1.6	23	498	79
FSW 577-0126	6/21/1996	33	<0.7	36	280	145
FSW 577-0142	6/21/1996	45	<0.7	8	145	94
FSW 577-0051	11/19/1996	520	0.8	<5	344	141
FSW 577-0061	11/19/1996	379	<0.7	<5	1039	197
FSW 577-0071	11/19/1996	246	10.8	60	1266	199
FSW 577-0081	11/19/1996	773	<0.7	<5	1562	281
FSW 577-0097	11/19/1996	25	--	68	731	101
FSW 577-0097-D	11/19/1996	25	--	69	731	101
FSW 577-0111	11/19/1996	37	<0.7	12	263	142
FSW 577-0126	11/19/1996	38	<0.7	8	165	147
FSW 577-0142	11/19/1996	46	--	9	160	219
FSW 577-0051	2/28/1997	--	--	<5	--	--
FSW 577-0061	2/28/1997	271	1.1	<5	647	157
FSW 577-0071	2/28/1997	<5	<0.7	277	1468	120
FSW 577-0081	2/28/1997	<5	<0.7	<5	485	75
FSW 577-0081-D	2/28/1997	<5	<0.7	<5	488	76
FSW 577-0097	2/28/1997	<5	<0.7	38	930	148
FSW 577-0111	2/28/1997	42	<0.7	14	215	117
FSW 577-0126	2/28/1997	34	<0.7	7	148	119
FSW 577-0142	2/28/1997	40	<0.7	9	146	194
FSW 577-0051	5/29/1997	573	<0.7	9	102	133

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 577-0061	5/29/1997	2171	5.3	13	395	221
FSW 577-0071	5/29/1997	<5	<0.7	185	886	83
FSW 577-0081	5/29/1997	<5	<0.7	15	437	88
FSW 577-0097	5/29/1997	<5	<0.7	65	948	174
FSW 577-0111	5/29/1997	45	<0.7	6	313	123
FSW 577-0126	5/29/1997	33	<0.7	<5	161	107
FSW 577-0126-D	5/29/1997	32	<0.7	<5	159	106
FSW 577-0142	5/29/1997	36	<0.7	<5	161	158
FSW 577-0051	8/25/1997	326	<0.7	<5	116	110
FSW 577-0061	8/25/1997	37	11.8	<5	617	119
FSW 577-0071	8/25/1997	<5	<0.7	115	673	73
FSW 577-0071-D	8/25/1997	<5	<0.7	120	683	73
FSW 577-0081	8/25/1997	<5	<0.7	189	439	116
FSW 577-0097	8/25/1997	<5	<0.7	44	828	150
FSW 577-0111	8/25/1997	42	<0.7	<5	308	125
FSW 577-0126	8/25/1997	32	<0.7	6	174	105
FSW 577-0142	8/25/1997	34	<0.7	<5	173	146
FSW 577-0051	11/13/1997	339	<0.7	20	207	111
FSW 577-0061	11/13/1997	35	13.6	19	476	142
FSW 577-0071	11/13/1997	<5	<0.7	116	590	61
FSW 577-0071-D	11/13/1997	<5	<0.7	99	569	61
FSW 577-0081	11/13/1997	<5	<0.7	185	508	122
FSW 577-0097	11/13/1997	<5	<0.7	53	721	153
FSW 577-0111	11/13/1997	42	<0.7	21	390	87
FSW 577-0126	11/13/1997	32	<0.7	16	166	114
FSW 577-0142	11/13/1997	31	<0.7	15	181	137
FSW 577-0051	6/18/1998	306	<0.7	30	114	86
FSW 577-0061	6/18/1998	110	20.8	16	709	207
FSW 577-0071	6/18/1998	<5	<0.7	43	484	83
FSW 577-0071-D	6/18/1998	<5	<0.7	52	475	83
FSW 577-0081	6/18/1998	<5	<0.7	46	595	80
FSW 577-0097	6/18/1998	<5	<0.7	33	576	125
FSW 577-0111	6/18/1998	<5	<0.7	17	787	129
FSW 577-0126	6/18/1998	38	<0.7	20	167	102

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 577-0142	6/18/1998	28	<0.7	19	170	128
FSW 577-0051	11/17/1998	181	<0.7	13	157	95
FSW 577-0061	11/17/1998	122	11.8	7	578	159
FSW 577-0061-D	11/17/1998	124	12.0	11	573	159
FSW 577-0071	11/17/1998	<5	<0.7	30	484	94
FSW 577-0081	11/17/1998	<5	<0.7	22	569	62
FSW 577-0097	11/17/1998	<5	<0.7	23	1167	64
FSW 577-0111	11/17/1998	7	<0.7	13	357	170
FSW 577-0126	11/17/1998	48	<0.7	12	154	94
FSW 577-0142	11/17/1998	32	<0.7	7	150	122
FSW 577-0051	6/30/1999	384	<0.7	7	122	92
FSW 577-0061	6/30/1999	<5	<0.7	10	414	123
FSW 577-0071	6/30/1999	<5	<0.7	7	469	87
FSW 577-0081	6/30/1999	<5	<0.7	12	580	81
FSW 577-0081-D	6/30/1999	<5	<0.7	13	591	81
FSW 577-0097	6/30/1999	<5	<0.7	7	1034	127
FSW 577-0111	6/30/1999	19	<0.7	<5	408	124
FSW 577-0126	6/30/1999	39	<0.7	<5	151	94
FSW 577-0142	6/30/1999	29	<0.7	<5	165	129
FSW 577-0051	6/23/2000	269	0.8	<5	129	85
FSW 577-0061	6/23/2000	112	9.3	<5	469	140
FSW 577-0061-D	6/23/2000	115	9.0	<5	474	142
FSW 577-0071	6/23/2000	<5	1.2	<5	433	115
FSW 577-0081	6/23/2000	<5	0.7	20	445	120
FSW 577-0097	6/23/2000	<5	0.8	6	840	204
FSW 577-0111	6/23/2000	22	0.7	<5	418	67
FSW 577-0126	6/22/2000	27	0.8	<5	159	95
FSW 577-0142	6/22/2000	24	0.8	<5	165	118
FSW 577-0051	8/15/2002	179	<0.7	<5	126	88
FSW 577-0061	8/15/2002	<5	<0.7	<5	359	107
FSW 577-0071	8/15/2002	<5	<0.7	<5	323	120
FSW 577-0081	8/15/2002	<5	<0.7	<5	690	130
FSW 577-0097	8/15/2002	<5	<0.7	<5	667	167

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 577-0111	8/15/2002	37	<0.7	<5	312	108
FSW 577-0126	8/15/2002	24	<0.7	<5	193	167
FSW 577-0142	8/15/2002	29	<0.7	<5	165	136
FSW 577-0051	8/2/2004	128	<0.7	<5	81	59
FSW 577-0051-D	8/2/2004	132	<0.7	<5	84	60
FSW 577-0061	8/2/2004	40	6.1	<5	194	137
FSW 577-0071	8/2/2004	<5	<0.7	<5	356	99
FSW 577-0081	8/2/2004	<5	<0.7	<5	308	139
FSW 577-0097	8/2/2004	<5	<0.7	<5	1001	109
FSW 577-0111	8/2/2004	47	<0.7	<5	1362	71
FSW 577-0126	8/2/2004	35	<0.7	<5	1054	44
FSW 577-0142	8/2/2004	22	<0.7	<5	174	85
FSW 586-0058	6/15/1996	144	<0.7	15	275	70
FSW 586-0068	6/15/1996	1186	<0.7	112	1543	297
FSW 586-0078	6/15/1996	652	4.6	75	1595	276
FSW 586-0088	6/15/1996	241	21.3	22	1554	343
FSW 586-0098	6/15/1996	343	24.1	19	1623	334
FSW 586-0113	6/15/1996	789	15.5	17	1405	276
FSW 586-0128	6/15/1996	106	<0.7	14	652	97
FSW 586-0128-D	6/15/1996	109	<0.7	12	615	131
FSW 586-0143	6/15/1996	41	<0.7	<5	158	132
FSW 586-0058	11/22/1996	757	1.9	<5	569	140
FSW 586-0068	11/22/1996	1065	2.8	<5	1589	275
FSW 586-0078	11/22/1996	816	<0.7	90	1432	263
FSW 586-0088	11/22/1996	593	9.5	<5	1417	276
FSW 586-0098	11/22/1996	585	8.1	<5	1352	254
FSW 586-0113	11/22/1996	74	7.4	28	637	83
FSW 586-0113-D	11/22/1996	73	7.0	<5	642	84
FSW 586-0128	11/22/1996	44	<0.7	<5	177	98
FSW 586-0143	11/22/1996	49	<0.7	<5	191	189
FSW 586-0058	3/6/1997	576	<0.7	<5	288	111
FSW 586-0068	3/6/1997	269	8.1	<5	901	180
FSW 586-0078	3/6/1997	172	1.3	<5	1238	151

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 586-0088	3/6/1997	618	<0.7	59	1326	242
FSW 586-0098	3/6/1997	<5	<0.7	146	764	143
FSW 586-0098-D	3/6/1997	<5	<0.7	134	758	143
FSW 586-0113	3/6/1997	54	3.6	<5	488	174
FSW 586-0128	3/6/1997	38	<0.7	6	143	100
FSW 586-0143	3/6/1997	42	<0.7	<5	201	220
FSW 586-0058	6/10/1997	965	<0.7	5	127	137
FSW 586-0068	6/10/1997	602	9.9	<5	646	162
FSW 586-0078	6/10/1997	<5	<0.7	21	1234	95
FSW 586-0088	6/10/1997	149	<0.7	88	834	159
FSW 586-0098	6/10/1997	<5	<0.7	161	900	148
FSW 586-0113	6/10/1997	41	0.7	9	395	208
FSW 586-0128	6/10/1997	41	<0.7	<5	153	127
FSW 586-0143	6/10/1997	40	<0.7	<5	149	204
FSW 586-0143-D	6/10/1997	40	<0.7	<5	157	203
FSW 586-0058	8/26/1997	441	<0.7	<5	105	113
FSW 586-0068	8/26/1997	1770	10.9	<5	471	131
FSW 586-0078	8/26/1997	<5	<0.7	<5	1206	104
FSW 586-0088	8/26/1997	10	<0.7	<5	557	110
FSW 586-0088-D	8/26/1997	10	<0.7	34	548	111
FSW 586-0098	8/26/1997	<5	<0.7	37	865	147
FSW 586-0113	8/26/1997	19	1.9	<5	446	190
FSW 586-0128	8/26/1997	39	<0.7	<5	164	94
FSW 586-0143	8/26/1997	38	<0.7	<5	167	193
FSW 586-0058	11/6/1997	633	<0.7	15	227	107
FSW 586-0068	11/6/1997	74	4.0	10	620	140
FSW 586-0078	11/6/1997	<5	<0.7	97	930	79
FSW 586-0078-D	11/6/1997	<5	<0.7	106	935	78
FSW 586-0088	11/6/1997	<5	<0.7	28	443	128
FSW 586-0098	11/6/1997	<5	<0.7	115	745	189
FSW 586-0113	11/6/1997	40	1.3	20	245	150
FSW 586-0128	11/6/1997	35	<0.7	17	158	95
FSW 586-0143	11/6/1997	35	<0.7	41	157	168

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 586-0058	7/9/1998	563	0.8	28	194	100
FSW 586-0068	7/9/1998	<5	1.7	16	357	150
FSW 586-0078	7/9/1998	5	<0.7	48	470	90
FSW 586-0088	7/9/1998	<5	<0.7	62	482	182
FSW 586-0088-D	7/9/1998	<5	<0.7	61	487	182
FSW 586-0098	7/9/1998	<5	<0.7	190	704	153
FSW 586-0113	7/9/1998	48	<0.7	14	271	106
FSW 586-0128	7/9/1998	45	<0.7	6	234	85
FSW 586-0143	7/9/1998	31	<0.7	19	163	138
FSW 586-0058	11/19/1998	249	<0.7	12	137	104
FSW 586-0068	11/19/1998	18	7.1	14	618	189
FSW 586-0078	11/19/1998	<5	<0.7	14	708	72
FSW 586-0078-D	11/19/1998	<5	<0.7	27	711	73
FSW 586-0088	11/19/1998	<5	<0.7	109	570	126
FSW 586-0098	11/19/1998	<5	<0.7	126	709	152
FSW 586-0113	11/19/1998	<5	<0.7	17	825	123
FSW 586-0128	11/19/1998	51	<0.7	11	323	85
FSW 586-0143	11/19/1998	30	<0.7	13	177	127
FSW 586-0058	7/12/1999	244	<0.7	<5	281	129
FSW 586-0068	7/12/1999	5	11.5	<5	509	139
FSW 586-0078	7/12/1999	<5	<0.7	5	568	146
FSW 586-0088	7/12/1999	<5	<0.7	45	535	125
FSW 586-0098	7/12/1999	<5	<0.7	39	555	154
FSW 586-0113	7/12/1999	7	1.3	<5	635	164
FSW 586-0128	7/12/1999	39	<0.7	<5	210	112
FSW 586-0143	7/12/1999	30	<0.7	<5	167	141
FSW 586-0058	6/21/2000	186	0.9	<5	213	112
FSW 586-0068	6/21/2000	<5	<0.7	<5	585	49
FSW 586-0078	6/21/2000	<5	<0.7	<5	740	72
FSW 586-0078-D	6/21/2000	<5	<0.7	<5	737	75
FSW 586-0088	6/21/2000	<5	<0.7	6	711	136
FSW 586-0098	6/21/2000	<5	<0.7	<5	974	79
FSW 586-0113	6/21/2000	47	<0.7	<5	307	176
FSW 586-0128	6/21/2000	41	<0.7	<5	168	91

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
FSW 586-0143	6/21/2000	38	<0.7	<5	169	126
FSW 586-0058	7/31/2002	131	<0.7	<5	280	130
FSW 586-0058-D	7/31/2002	131	<0.7	<5	278	131
FSW 586-0068	7/31/2002	46	11.1	<5	457	107
FSW 586-0078	7/31/2002	<5	<0.7	<5	347	140
FSW 586-0088	7/31/2002	<5	<0.7	<5	853	191
FSW 586-0098	7/31/2002	<5	<0.7	<5	1195	123
FSW 586-0113	7/31/2002	20	<0.7	<5	224	109
FSW 586-0128	7/31/2002	30	<0.7	<5	192	140
FSW 586-0143	7/31/2002	30	<0.7	<5	175	133
FSW 586-0058	8/2/2004	229	<0.7	<5	111	87
FSW 586-0068	8/2/2004	14	20.9	<5	311	98
FSW 586-0078	8/2/2004	<5	<0.7	<5	235	115
FSW 586-0088	8/2/2004	<5	<0.7	<5	430	134
FSW 586-0098	8/2/2004	<5	<0.7	<5	569	77
FSW 586-0113	8/2/2004	73	10.0	<5	1021	69
FSW 586-0128	8/2/2004	36	<0.7	<5	628	57
FSW 586-0143	8/2/2004	27	<0.7	<5	172	118
FSW 586-0143-D	8/2/2004	27	<0.7	<5	174	119
SDW 436-M01-01PT	7/12/2002	--	--	--	--	--
SDW 436-M01-02GNT	7/12/2002	199	<0.7	2	236	147
SDW 436-M01-03RT	7/12/2002	78	<0.7	2	332	194
SDW 436-M01-04BUT	7/12/2002	70	<0.7	2	346	189
SDW 436-M01-05BKT	7/12/2002	36	<0.7	3	302	123
SDW 436-M01-06WT	7/12/2002	36	<0.7	<5	304	103
SDW 436-M01-07O	7/12/2002	63	0.9	2	232	123
SDW 436-M01-07-O-D	7/12/2002	64	0.9	2	231	122
SDW 436-M01-08GY	7/12/2002	59	<0.7	48	479	112
SDW 436-M01-09Y	7/12/2002	50	<0.7	43	781	93
SDW 436-M01-10P	7/12/2002	38	<0.7	20	797	106
SDW 436-M01-11GN	7/12/2002	52	<0.7	<5	649	84
SDW 436-M01-12R	7/12/2002	42	<0.7	3	441	66
SDW 436-M01-13BU	7/12/2002	21	<0.7	5	257	69
SDW 436-M01-14BK	7/12/2002	23	<0.7	4	196	122

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 436-M01-15W	7/12/2002	23	<0.7	3	194	179
SDW 436-M01-01PT	5/27/2003	103	<0.7	<5	96	120
SDW 436-M01-02GNT	5/27/2003	393	<0.7	<5	118	110
SDW 436-M01-02GNT-D	5/27/2003	392	<0.7	<5	119	110
SDW 436-M01-03RT	5/27/2003	83	<0.7	<5	408	157
SDW 436-M01-04BUT	5/27/2003	178	<0.7	<5	223	195
SDW 436-M01-05BKT	5/27/2003	138	<0.7	<5	360	169
SDW 436-M01-06WT	5/27/2003	22	<0.7	<5	354	122
SDW 436-M01-07O	5/27/2003	27	<0.7	<5	268	158
SDW 436-M01-08GY	5/27/2003	39	<0.7	34	466	152
SDW 436-M01-09Y	5/27/2003	30	<0.7	14	542	154
SDW 436-M01-10P	5/27/2003	48	<0.7	17	1176	70
SDW 436-M01-11GN	5/27/2003	54	<0.7	<5	1084	84
SDW 436-M01-12R	5/27/2003	46	<0.7	<5	739	98
SDW 436-M01-13BU	5/27/2003	27	<0.7	<5	425	78
SDW 436-M01-13BU-D	5/27/2003	26	<0.7	<5	424	77
SDW 436-M01-14BK	5/27/2003	29	<0.7	<5	195	119
SDW 436-M01-15W	5/27/2003	22	<0.7	<5	192	108
SDW 436-M01-01PT	8/26/2004	154	<0.7	<5	112	85
SDW 436-M01-02GNT	8/26/2004	82	<0.7	<5	269	107
SDW 436-M01-02GNT-D	8/26/2004	--	--	--	--	--
SDW 436-M01-03RT	8/26/2004	133	<0.7	<5	168	132
SDW 436-M01-04BUT	8/26/2004	115	<0.7	<5	171	112
SDW 436-M01-04BUT-D	8/26/2004	--	--	--	--	--
SDW 436-M01-05BKT	8/26/2004	34	<0.7	<5	400	55
SDW 436-M01-06WT	8/26/2004	27	<0.7	<5	1145	48
SDW 436-M01-06WT-D	8/26/2004	27	<0.7	<5	1160	48
SDW 436-M01-07O	8/26/2004	29	<0.7	<5	657	85
SDW 436-M01-08GY	8/26/2004	21	<0.7	<5	542	133
SDW 436-M01-09Y	8/26/2004	25	<0.7	<5	553	179
SDW 436-M01-10P	8/26/2004	46	<0.7	<5	1277	174
SDW 436-M01-11GN	8/26/2004	55	<0.7	<5	2396	111
SDW 436-M01-12R	8/26/2004	43	<0.7	<5	1454	99
SDW 436-M01-13BU	8/26/2004	43	<0.7	<5	1182	48
SDW 436-M01-14BK	8/26/2004	39	<0.7	<5	1071	46

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 436-M01-15W	8/26/2004	34	<0.7	<5	208	114
SDW 469-M01-01PT	9/27/1995	--	--	--	--	--
SDW 469-M01-02GNT	9/27/1995	1067	<0.7	20	1288	245
SDW 469-M01-03RT	9/27/1995	1016	<0.7	28	1184	232
SDW 469-M01-04BUT	9/27/1995	1026	<0.7	24	1327	297
SDW 469-M01-05BKT	9/27/1995	374	<0.7	19	732	142
SDW 469-M01-06WT	9/27/1995	546	<0.7	12	501	128
SDW 469-M01-07O	9/27/1995	1215	1.3	16	1193	124
SDW 469-M01-08GY	9/27/1995	1298	<0.7	165	1220	212
SDW 469-M01-09Y	9/27/1995	<5	4.6	155	843	152
SDW 469-M01-10P	9/27/1995	<5	<0.7	168	786	140
SDW 469-M01-11GN	9/27/1995	706	<0.7	72	937	192
SDW 469-M01-12R	9/27/1995	907	1.0	20	665	186
SDW 469-M01-13BU	9/27/1995	447	<0.7	8	611	101
SDW 469-M01-14BK	9/27/1995	74	<0.7	35	363	64
SDW 469-M01-15W	9/27/1995	<5	<0.7	<5	244	54
SDW 469-M01-01PT	11/28/1995	--	--	--	--	--
SDW 469-M01-02GNT	11/28/1995	942	<0.7	13	1009	216
SDW 469-M01-03RT	11/28/1995	1572	<0.7	22	2010	264
SDW 469-M01-04BUT	11/28/1995	823	<0.7	10	784	240
SDW 469-M01-05BKT	11/28/1995	1143	0.8	17	1129	189
SDW 469-M01-06WT	11/28/1995	1086	<0.7	16	1433	209
SDW 469-M01-07O	11/28/1995	914	1.4	24	1611	296
SDW 469-M01-08GY	11/28/1995	538	<0.7	29	1563	306
SDW 469-M01-09Y	11/28/1995	400	<0.7	85	1446	258
SDW 469-M01-10P	11/28/1995	352	5.6	93	1593	302
SDW 469-M01-11GN	11/28/1995	348	<0.7	64	1415	253
SDW 469-M01-11GN-D	11/28/1995	736	<0.7	69	1563	299
SDW 469-M01-12R	11/28/1995	844	<0.7	11	1536	292
SDW 469-M01-13BU	11/28/1995	1125	<0.7	13	957	270
SDW 469-M01-14BK	11/28/1995	37	<0.7	33	571	120
SDW 469-M01-15W	11/28/1995	11	<0.7	<5	574	105
SDW 469-M01-01PT	1/25/1996	--	--	--	--	--
SDW 469-M01-02GNT	1/25/1996	1464	<0.7	38	1815	280

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-02GNT-D	1/25/1996	1287	<0.7	44	1590	217
SDW 469-M01-03RT	1/25/1996	1168	<0.7	36	950	213
SDW 469-M01-04BUT	1/25/1996	1390	<0.7	16	1149	259
SDW 469-M01-05BKT	1/25/1996	1294	<0.7	49	1276	239
SDW 469-M01-06WT	1/25/1996	1138	<0.7	154	1529	244
SDW 469-M01-07O	1/25/1996	826	<0.7	113	1464	243
SDW 469-M01-08GY	1/25/1996	525	<0.7	22	1535	292
SDW 469-M01-09Y	1/25/1996	402	<0.7	33	1477	261
SDW 469-M01-10P	1/25/1996	310	<0.7	34	1422	250
SDW 469-M01-11GN	1/25/1996	355	<0.7	72	1486	273
SDW 469-M01-11GN-D	1/25/1996	279	<0.7	66	1146	225
SDW 469-M01-12R	1/25/1996	727	<0.7	85	1313	222
SDW 469-M01-13BU	1/25/1996	966	<0.7	11	930	131
SDW 469-M01-14BK	1/25/1996	10	<0.7	30	359	80
SDW 469-M01-15W	1/25/1996	21	<0.7	22	644	137
SDW 469-M01-01PT	3/21/1996	--	--	--	--	--
SDW 469-M01-02GNT	3/21/1996	512	<0.7	29	489	95
SDW 469-M01-03RT	3/21/1996	434	<0.7	28	485	75
SDW 469-M01-03RT-D	3/21/1996	342	<0.7	31	380	59
SDW 469-M01-04BUT	3/21/1996	304	<0.7	38	551	101
SDW 469-M01-05BKT	3/21/1996	765	3.3	65	938	159
SDW 469-M01-06WT	3/21/1996	792	<0.7	185	1436	221
SDW 469-M01-07O	3/21/1996	851	<0.7	485	1742	280
SDW 469-M01-08GY	3/21/1996	862	<0.7	139	1505	362
SDW 469-M01-09Y	3/21/1996	804	<0.7	49	1464	236
SDW 469-M01-10P	3/21/1996	850	<0.7	70	1221	191
SDW 469-M01-11GN	3/21/1996	485	<0.7	62	810	118
SDW 469-M01-12R	3/21/1996	415	<0.7	68	631	96
SDW 469-M01-12R-D	3/21/1996	316	<0.7	62	483	64
SDW 469-M01-13BU	3/21/1996	111	<0.7	27	457	88
SDW 469-M01-14BK	3/21/1996	42	<0.7	83	367	77
SDW 469-M01-15W	3/21/1996	32	<0.7	22	163	83
SDW 469-M01-01PT	5/15/1996	569	<0.7	32	318	70
SDW 469-M01-02GNT	5/15/1996	849	<0.7	28	777	140
SDW 469-M01-03RT	5/15/1996	575	<0.7	26	718	115

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-04BUT	5/15/1996	1480	<0.7	28	1360	281
SDW 469-M01-05BKT	5/15/1996	1642	4.2	33	1730	280
SDW 469-M01-05BKT-D	5/15/1996	1645	3.5	28	1712	292
SDW 469-M01-06WT	5/15/1996	765	<0.7	128	1699	269
SDW 469-M01-07O	5/15/1996	765	<0.7	540	1631	278
SDW 469-M01-08GY	5/15/1996	1083	<0.7	142	1637	279
SDW 469-M01-09Y	5/15/1996	236	1.0	33	651	86
SDW 469-M01-10P	5/15/1996	262	<0.7	25	690	126
SDW 469-M01-11GN	5/15/1996	282	<0.7	31	683	101
SDW 469-M01-12R	5/15/1996	54	<0.7	18	385	46
SDW 469-M01-13BU	5/15/1996	<5	<0.7	21	393	84
SDW 469-M01-14BK	5/15/1996	130	4.6	51	171	73
SDW 469-M01-14BK-D	5/15/1996	120	4.6	48	161	64
SDW 469-M01-15W	5/15/1996	36	<0.7	7	154	90
SDW 469-M01-01PT	7/25/1996	1142	<0.7	11	702	169
SDW 469-M01-02GNT	7/25/1996	424	<0.7	7	436	169
SDW 469-M01-03RT	7/25/1996	603	0.8	8	650	156
SDW 469-M01-04BUT	7/25/1996	585	1.5	9	1022	176
SDW 469-M01-05BKT	7/25/1996	706	8.6	16	1066	184
SDW 469-M01-05BKT-D	7/25/1996	709	8.7	12	1041	184
SDW 469-M01-06WT	7/25/1996	602	0.8	52	1008	177
SDW 469-M01-07O	7/25/1996	392	<0.7	426	1069	113
SDW 469-M01-08GY	7/25/1996	161	1.3	11	970	158
SDW 469-M01-09Y	7/25/1996	<5	0.9	5	545	87
SDW 469-M01-10P	7/25/1996	<5	<0.7	56	759	77
SDW 469-M01-11GN	7/25/1996	<5	<0.7	<5	611	79
SDW 469-M01-12R	7/25/1996	<5	<0.7	19	632	109
SDW 469-M01-13BU	7/25/1996	37	0.9	6	508	118
SDW 469-M01-14BK	7/25/1996	40	0.7	5	228	99
SDW 469-M01-14BK-D	7/25/1996	40	0.8	6	228	99
SDW 469-M01-15W	7/25/1996	34	0.8	<5	168	126
SDW 469-M01-01PT	11/6/1996	--	--	<5	--	--
SDW 469-M01-01PT-D	11/6/1996	--	--	<5	--	--
SDW 469-M01-02GNT	11/6/1996	--	--	<5	--	--
SDW 469-M01-03RT	11/6/1996	--	--	<5	--	--

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-04BUT	11/6/1996	--	--	<5	--	--
SDW 469-M01-05BKT	11/6/1996	--	--	<5	--	--
SDW 469-M01-06WT	11/6/1996	--	--	<5	--	--
SDW 469-M01-07O	11/6/1996	--	--	81	--	--
SDW 469-M01-08GY	11/6/1996	--	--	<5	--	--
SDW 469-M01-09Y	11/6/1996	--	--	<5	--	--
SDW 469-M01-10P	11/6/1996	--	--	40	--	--
SDW 469-M01-10P-D	11/6/1996	--	--	40	--	--
SDW 469-M01-11GN	11/6/1996	--	--	<5	--	--
SDW 469-M01-12R	11/6/1996	--	--	<5	--	--
SDW 469-M01-13BU	11/6/1996	--	--	39	--	--
SDW 469-M01-14BK	11/6/1996	--	--	<5	--	--
SDW 469-M01-15W	11/6/1996	--	--	<5	--	--
SDW 469-M01-01PT	2/3/1997	758	<0.7	9	117	176
SDW 469-M01-02GNT	2/3/1997	451	<0.7	<5	122	119
SDW 469-M01-03RT	2/3/1997	583	<0.7	7	338	135
SDW 469-M01-04BUT	2/3/1997	125	<0.7	10	544	145
SDW 469-M01-05BKT	2/3/1997	369	4.4	8	764	192
SDW 469-M01-05BKT-D	2/3/1997	368	4.4	9	767	180
SDW 469-M01-06WT	2/3/1997	322	7.4	10	739	161
SDW 469-M01-07O	2/3/1997	238	<0.7	17	801	268
SDW 469-M01-08GY	2/3/1997	81	<0.7	<5	615	166
SDW 469-M01-09Y	2/3/1997	<5	<0.7	5	507	89
SDW 469-M01-10P	2/3/1997	<5	<0.7	18	440	78
SDW 469-M01-11GN	2/3/1997	<5	<0.7	<5	817	80
SDW 469-M01-12R	2/3/1997	<5	<0.7	5	805	129
SDW 469-M01-13BU	2/3/1997	68	<0.7	88	315	122
SDW 469-M01-14BK	2/3/1997	41	<0.7	<5	267	88
SDW 469-M01-14BK-D	2/3/1997	41	<0.7	<5	267	88
SDW 469-M01-15W	2/3/1997	32	<0.7	<5	186	165
SDW 469-M01-01PT	5/12/1997	382	<0.7	9	116	96
SDW 469-M01-02GNT	5/12/1997	394	<0.7	7	223	130
SDW 469-M01-03RT	5/12/1997	295	<0.7	5	302	134
SDW 469-M01-04BUT	5/12/1997	113	1.0	<5	411	138
SDW 469-M01-05BKT	5/12/1997	112	3.7	<5	443	113

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-06WT	5/12/1997	111	5.4	<5	479	99
SDW 469-M01-07O	5/12/1997	24	1.5	<5	541	92
SDW 469-M01-08GY	5/12/1997	<5	0.8	<5	451	75
SDW 469-M01-09Y	5/12/1997	<5	0.8	<5	487	63
SDW 469-M01-09Y-D	5/12/1997	<5	0.7	<5	491	67
SDW 469-M01-10P	5/12/1997	<5	<0.7	8	652	95
SDW 469-M01-11GN	5/12/1997	<5	<0.7	<5	784	134
SDW 469-M01-12R	5/12/1997	<5	<0.7	21	911	123
SDW 469-M01-13BU	5/12/1997	70	<0.7	94	326	121
SDW 469-M01-14BK	5/12/1997	45	<0.7	5	253	91
SDW 469-M01-15W	5/12/1997	36	<0.7	<5	179	192
SDW 469-M01-01PT	8/5/1997	201	<0.7	7	377	80
SDW 469-M01-01PT-D	8/5/1997	200	<0.7	<5	382	69
SDW 469-M01-02GNT	8/5/1997	432	<0.7	<5	2706	66
SDW 469-M01-03RT	8/5/1997	233	<0.7	<5	1067	138
SDW 469-M01-04BUT	8/5/1997	137	0.8	<5	213	132
SDW 469-M01-05BKT	8/5/1997	68	3.9	11	348	89
SDW 469-M01-06WT	8/5/1997	48	7.0	13	387	85
SDW 469-M01-07O	8/5/1997	<5	<0.7	<5	504	86
SDW 469-M01-08GY	8/5/1997	<5	<0.7	<5	605	65
SDW 469-M01-09Y	8/5/1997	<5	<0.7	<5	584	65
SDW 469-M01-10P	8/5/1997	<5	<0.7	10	763	73
SDW 469-M01-10P-D	8/5/1997	<5	<0.7	11	780	74
SDW 469-M01-11GN	8/5/1997	<5	<0.7	<5	564	109
SDW 469-M01-12R	8/5/1997	<5	<0.7	<5	563	134
SDW 469-M01-13BU	8/5/1997	32	<0.7	146	687	137
SDW 469-M01-14BK	8/5/1997	45	<0.7	<5	156	99
SDW 469-M01-15W	8/5/1997	34	0.8	<5	170	213
SDW 469-M01-01PT	10/27/1997	447	<0.7	<5	112	96
SDW 469-M01-01PT-D	10/27/1997	448	<0.7	<5	113	95
SDW 469-M01-02GNT	10/27/1997	284	<0.7	<5	182	117
SDW 469-M01-03RT	10/27/1997	110	<0.7	<5	251	112
SDW 469-M01-04BUT	10/27/1997	103	<0.7	<5	273	128
SDW 469-M01-05BKT	10/27/1997	67	3.8	<5	446	92
SDW 469-M01-06WT	10/27/1997	41	4.3	<5	599	60

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-07O	10/27/1997	<5	<0.7	<5	404	64
SDW 469-M01-08GY	10/27/1997	<5	<0.7	<5	571	51
SDW 469-M01-09Y	10/27/1997	<5	<0.7	<5	604	68
SDW 469-M01-10P	10/27/1997	<5	<0.7	<5	702	83
SDW 469-M01-10P-D	10/27/1997	<5	<0.7	<5	704	83
SDW 469-M01-11GN	10/27/1997	<5	<0.7	127	656	138
SDW 469-M01-12R	10/27/1997	<5	<0.7	83	656	161
SDW 469-M01-13BU	10/27/1997	67	<0.7	80	524	125
SDW 469-M01-14BK	10/27/1997	43	<0.7	<5	147	91
SDW 469-M01-15W	10/27/1997	32	<0.7	<5	174	203
SDW 469-M01-01PT	5/7/1998	264	<0.7	11	115	75
SDW 469-M01-02GNT	5/7/1998	463	<0.7	6	157	120
SDW 469-M01-03RT	5/7/1998	540	<0.7	<5	505	156
SDW 469-M01-04BUT	5/7/1998	110	1.1	9	556	110
SDW 469-M01-05BKT	5/7/1998	29	3.1	<5	543	117
SDW 469-M01-06WT	5/7/1998	14	3.3	<5	586	116
SDW 469-M01-07O	5/7/1998	<5	<0.7	<5	651	99
SDW 469-M01-08GY	5/7/1998	<5	<0.7	<5	548	52
SDW 469-M01-08GY-D	5/7/1998	<5	<0.7	<5	536	51
SDW 469-M01-09Y	5/7/1998	<5	<0.7	27	665	64
SDW 469-M01-10P	5/7/1998	<5	<0.7	127	662	110
SDW 469-M01-11GN	5/7/1998	6	<0.7	58	663	136
SDW 469-M01-12R	5/7/1998	<5	<0.7	41	482	112
SDW 469-M01-13BU	5/7/1998	46	<0.7	35	228	127
SDW 469-M01-14BK	5/7/1998	53	<0.7	7	150	89
SDW 469-M01-15W	5/7/1998	32	<0.7	<5	195	194
SDW 469-M01-01PT	10/29/1998	262	<0.7	6	145	89
SDW 469-M01-02GNT	10/29/1998	240	<0.7	<5	274	134
SDW 469-M01-03RT	10/29/1998	103	<0.7	<5	321	100
SDW 469-M01-04BUT	10/29/1998	397	<0.7	<5	274	129
SDW 469-M01-05BKT	10/29/1998	607	5.2	<5	480	93
SDW 469-M01-06WT	10/29/1998	155	3.9	<5	828	71
SDW 469-M01-07O	10/29/1998	<5	<0.7	<5	765	89
SDW 469-M01-08GY	10/29/1998	<5	<0.7	<5	666	64
SDW 469-M01-08GY-D	10/29/1998	<5	<0.7	<5	667	64

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-09Y	10/29/1998	<5	<0.7	143	536	117
SDW 469-M01-10P	10/29/1998	<5	<0.7	120	600	116
SDW 469-M01-11GN	10/29/1998	<5	<0.7	49	891	103
SDW 469-M01-12R	10/29/1998	<5	<0.7	35	969	150
SDW 469-M01-13BU	10/29/1998	<5	<0.7	22	257	114
SDW 469-M01-14BK	10/29/1998	68	<0.7	<5	157	98
SDW 469-M01-15W	10/29/1998	36	<0.7	<5	188	171
SDW 469-M01-01PT	7/1/1999	374	<0.7	10	92	125
SDW 469-M01-02GNT	7/1/1999	341	<0.7	7	106	116
SDW 469-M01-03RT	7/1/1999	165	<0.7	9	267	133
SDW 469-M01-04BUT	7/1/1999	125	<0.7	8	430	152
SDW 469-M01-05BKT	7/1/1999	69	5.6	11	400	134
SDW 469-M01-05BKT-D	7/1/1999	69	5.7	10	408	134
SDW 469-M01-06WT	7/1/1999	48	1.1	<5	409	119
SDW 469-M01-07O	7/1/1999	<5	<0.7	<5	448	123
SDW 469-M01-08GY	7/1/1999	<5	<0.7	8	423	77
SDW 469-M01-09Y	7/1/1999	<5	<0.7	151	712	55
SDW 469-M01-10P	7/1/1999	7	<0.7	102	917	69
SDW 469-M01-11GN	7/1/1999	7	<0.7	36	807	99
SDW 469-M01-12R	7/1/1999	5	<0.7	32	976	111
SDW 469-M01-13BU	7/1/1999	6	<0.7	9	625	69
SDW 469-M01-14BK	7/1/1999	54	<0.7	<5	338	75
SDW 469-M01-15W	7/1/1999	33	<0.7	5	208	164
SDW 469-M01-01PT	5/24/2000	126	<0.7	5	164	76
SDW 469-M01-01PT-D	5/24/2000	134	<0.7	5	171	78
SDW 469-M01-02GNT	5/24/2000	233	<0.7	<5	105	99
SDW 469-M01-03RT	5/24/2000	264	<0.7	<5	200	144
SDW 469-M01-04BUT	5/24/2000	73	<0.7	<5	290	115
SDW 469-M01-05BKT	5/24/2000	59	3.9	<5	420	127
SDW 469-M01-06WT	5/24/2000	21	<0.7	<5	385	124
SDW 469-M01-07O	5/24/2000	<5	<0.7	<5	592	90
SDW 469-M01-08GY	5/24/2000	<5	<0.7	<5	760	86
SDW 469-M01-08GY-D	5/24/2000	<5	<0.7	<5	673	79
SDW 469-M01-09Y	5/24/2000	<5	<0.7	173	787	120
SDW 469-M01-10P	5/24/2000	<5	<0.7	99	573	166

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-11GN	5/24/2000	<5	<0.7	41	1018	165
SDW 469-M01-12R	5/24/2000	<5	<0.7	33	859	177
SDW 469-M01-13BU	5/24/2000	<5	<0.7	<5	809	108
SDW 469-M01-14BK	5/24/2000	30	<0.7	<5	206	108
SDW 469-M01-15W	5/24/2000	22	<0.7	<5	169	143
SDW 469-M01-01PT	8/29/2001	163	<0.7	<5	109	83
SDW 469-M01-02GNT	8/29/2001	164	<0.7	<5	180	130
SDW 469-M01-03RT	8/29/2001	229	<0.7	<5	263	176
SDW 469-M01-04BUT	8/29/2001	162	<0.7	<5	109	83
SDW 469-M01-05BKT	8/29/2001	71	2.7	<5	316	132
SDW 469-M01-06WT	8/29/2001	113	<0.7	<5	255	127
SDW 469-M01-07O	8/29/2001	99	<0.7	<5	237	157
SDW 469-M01-07O D	8/29/2001	99	<0.7	<5	236	155
SDW 469-M01-08GY	8/29/2001	191	<0.7	<5	267	96
SDW 469-M01-09Y	8/29/2001	45	--	106	560	54
SDW 469-M01-10P	8/29/2001	<5	<0.7	134	1538	43
SDW 469-M01-11GN	8/29/2001	<5	<0.7	46	1361	71
SDW 469-M01-12R	8/29/2001	43	2.1	<5	1159	112
SDW 469-M01-13BU	8/29/2001	43	<0.7	<5	565	51
SDW 469-M01-14BK	8/29/2001	45	<0.7	<5	1023	54
SDW 469-M01-15W	8/29/2001	25	<0.7	<5	212	164
SDW 469-M01-01PT	6/20/2002	--	--	--	--	--
SDW 469-M01-02GNT	6/20/2002	317	<0.7	<5	73	118
SDW 469-M01-03RT	6/20/2002	223	<0.7	<5	157	123
SDW 469-M01-04BUT	6/20/2002	98	<0.7	<5	274	191
SDW 469-M01-05BKT	6/20/2002	56	5.5	<5	343	209
SDW 469-M01-06WT	6/20/2002	49	<0.7	<5	400	244
SDW 469-M01-07O	6/20/2002	5	<0.7	<5	428	140
SDW 469-M01-08GY	6/20/2002	6	<0.7	<5	471	112
SDW 469-M01-09Y	6/20/2002	5	<0.7	86	790	125
SDW 469-M01-10P	6/20/2002	6	<0.7	78	664	137
SDW 469-M01-11GN	6/20/2002	<5	<0.7	31	735	101
SDW 469-M01-11GN-D	6/20/2002	<5	<0.7	49	756	101
SDW 469-M01-12R	6/20/2002	38	<0.7	<5	377	90
SDW 469-M01-13BU	6/20/2002	30	<0.7	<5	200	224
SDW 469-M01-14BK	6/20/2002	26	<0.7	<5	168	140

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 469-M01-15W	6/20/2002	5	<0.7	<5	212	167
SDW 469-M01-01PT	6/3/2003	154	<0.7	<5	80	63
SDW 469-M01-02GNT	6/3/2003	189	<0.7	<5	77	100
SDW 469-M01-03RT	6/3/2003	192	<0.7	<5	118	98
SDW 469-M01-04BUT	6/3/2003	185	<0.7	<5	221	139
SDW 469-M01-05BKT	6/3/2003	52	1.3	<5	489	90
SDW 469-M01-05BKT-D	6/3/2003	51	1.4	<5	488	91
SDW 469-M01-06WT	6/3/2003	12	<0.7	<5	645	82
SDW 469-M01-07O	6/3/2003	7	<0.7	<5	441	101
SDW 469-M01-07O-D	6/3/2003	7	<0.7	<5	443	101
SDW 469-M01-08GY	6/3/2003	7	<0.7	<5	666	95
SDW 469-M01-09Y	6/3/2003	<5	<0.7	13	875	94
SDW 469-M01-10P	6/3/2003	<5	<0.7	28	1019	78
SDW 469-M01-11GN	6/3/2003	8	<0.7	<5	1001	104
SDW 469-M01-12R	6/3/2003	51	<0.7	<5	873	60
SDW 469-M01-13BU	6/3/2003	45	<0.7	<5	612	47
SDW 469-M01-14BK	6/3/2003	26	<0.7	<5	184	118
SDW 469-M01-15W	6/3/2003	26	<0.7	<5	217	128
SDW 469-M01-01PT	7/30/2004	151	<0.7	<5	111	68
SDW 469-M01-02GNT	7/30/2004	210	<0.7	<5	104	94
SDW 469-M01-03RT	7/30/2004	161	<0.7	<5	176	116
SDW 469-M01-04BUT	7/30/2004	108	<0.7	<5	142	158
SDW 469-M01-05BKT	7/30/2004	36	<0.7	<5	164	90
SDW 469-M01-06WT	7/30/2004	27	<0.7	<5	212	92
SDW 469-M01-07O	7/30/2004	<5	<0.7	<5	515	104
SDW 469-M01-07O-D	7/30/2004	<5	<0.7	<5	506	102
SDW 469-M01-08GY	7/30/2004	<5	<0.7	<5	710	96
SDW 469-M01-09Y	7/30/2004	<5	<0.7	7	820	140
SDW 469-M01-10P	7/30/2004	<5	<0.7	6	1780	129
SDW 469-M01-11GN	7/30/2004	44	<0.7	<5	2023	141
SDW 469-M01-12R	7/30/2004	49	<0.7	<5	1778	59
SDW 469-M01-13BU	7/30/2004	45	<0.7	<5	1664	38
SDW 469-M01-14BK	7/30/2004	38	<0.7	<5	1405	43
SDW 469-M01-15W	7/30/2004	29	<0.7	<5	463	83

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-01PT	9/28/1995	--	--	--	--	--
SDW 473-M01-02GNT	9/28/1995	367	<0.7	13	367	145
SDW 473-M01-03RT	9/28/1995	227	<0.7	13	462	142
SDW 473-M01-04BUT	9/28/1995	386	<0.7	13	748	156
SDW 473-M01-05BKT	9/28/1995	438	1.4	10	798	157
SDW 473-M01-06WT	9/28/1995	435	<0.7	58	719	21
SDW 473-M01-07O	9/28/1995	<5	<0.7	234	217	39
SDW 473-M01-08GY	9/28/1995	<5	<0.7	209	134	40
SDW 473-M01-09Y	9/28/1995	<5	<0.7	108	448	105
SDW 473-M01-10P	9/28/1995	<5	<0.7	66	482	121
SDW 473-M01-11GN	9/28/1995	<5	<0.7	37	556	163
SDW 473-M01-12R	9/28/1995	<5	<0.7	22	231	84
SDW 473-M01-13BU	9/28/1995	11	<0.7	7	117	72
SDW 473-M01-14BK	9/28/1995	23	<0.7	21	104	87
SDW 473-M01-15W	9/28/1995	9	<0.7	33	61	75
SDW 473-M01-01PT	11/30/1995	--	--	--	--	--
SDW 473-M01-02GNT	11/30/1995	294	<0.7	<5	538	130
SDW 473-M01-03RT	11/30/1995	836	<0.7	<5	953	199
SDW 473-M01-04BUT	11/30/1995	511	<0.7	<5	782	135
SDW 473-M01-05BKT	11/30/1995	554	<0.7	9	867	261
SDW 473-M01-06WT	11/30/1995	1003	<0.7	13	1121	265
SDW 473-M01-07O	11/30/1995	795	<0.7	387	1052	28
SDW 473-M01-08GY	11/30/1995	<5	<0.7	185	484	87
SDW 473-M01-09Y	11/30/1995	15	1.2	84	569	111
SDW 473-M01-10P	11/30/1995	<5	<0.7	37	667	158
SDW 473-M01-10P-D	11/30/1995	<5	<0.7	48	668	158
SDW 473-M01-11GN	11/30/1995	<5	<0.7	22	635	190
SDW 473-M01-12R	11/30/1995	<5	<0.7	<5	599	118
SDW 473-M01-12R-D	11/30/1995	<5	<0.7	<5	598	117
SDW 473-M01-13BU	11/30/1995	22	<0.7	<5	248	105
SDW 473-M01-14BK	11/30/1995	30	<0.7	<5	144	109
SDW 473-M01-15W	11/30/1995	31	<0.7	<5	186	201
SDW 473-M01-01PT	1/24/1996	--	--	--	--	--
SDW 473-M01-02GNT	1/24/1996	410	<0.7	34	1086	235
SDW 473-M01-03RT	1/24/1996	531	<0.7	49	1207	239

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-04BUT	1/24/1996	477	<0.7	53	1143	272
SDW 473-M01-05BKT	1/24/1996	456	<0.7	42	1101	253
SDW 473-M01-05BKT-D	1/24/1996	458	<0.7	50	1108	253
SDW 473-M01-06WT	1/24/1996	441	<0.7	42	798	89
SDW 473-M01-07O	1/24/1996	89	<0.7	243	334	67
SDW 473-M01-08GY	1/24/1996	<5	<0.7	193	460	102
SDW 473-M01-09Y	1/24/1996	<5	<0.7	120	763	115
SDW 473-M01-10P	1/24/1996	<5	<0.7	47	791	142
SDW 473-M01-11GN	1/24/1996	<5	<0.7	44	640	197
SDW 473-M01-12R	1/24/1996	23	<0.7	17	616	91
SDW 473-M01-13BU	1/24/1996	28	<0.7	28	232	94
SDW 473-M01-14BK	1/24/1996	51	<0.7	11	187	120
SDW 473-M01-14BK-D	1/24/1996	55	<0.7	24	188	126
SDW 473-M01-15W	1/24/1996	76	<0.7	34	255	204
SDW 473-M01-01PT	3/20/1996	12	<0.7	8	329	75
SDW 473-M01-02GNT	3/20/1996	240	<0.7	<5	536	137
SDW 473-M01-03RT	3/20/1996	812	0.8	14	1159	180
SDW 473-M01-04BUT	3/20/1996	907	<0.7	16	1250	236
SDW 473-M01-05BKT	3/20/1996	927	0.7	13	1296	184
SDW 473-M01-06WT	3/20/1996	246	<0.7	37	845	137
SDW 473-M01-06WT-D	3/20/1996	243	<0.7	44	854	137
SDW 473-M01-07O	3/20/1996	15	<0.7	224	512	50
SDW 473-M01-08GY	3/20/1996	<5	<0.7	191	452	70
SDW 473-M01-09Y	3/20/1996	<5	<0.7	83	772	97
SDW 473-M01-10P	3/20/1996	<5	<0.7	73	818	125
SDW 473-M01-11GN	3/20/1996	<5	<0.7	47	639	147
SDW 473-M01-12R	3/20/1996	33	<0.7	22	530	82
SDW 473-M01-13BU	3/20/1996	31	<0.7	21	200	90
SDW 473-M01-14BK	3/20/1996	34	<0.7	50	162	117
SDW 473-M01-15W	3/20/1996	50	<0.7	35	218	204
SDW 473-M01-15W-D	3/20/1996	52	<0.7	32	227	203
SDW 473-M01-01PT	5/16/1996	40	<0.7	34	419	119
SDW 473-M01-02GNT	5/16/1996	188	<0.7	26	377	184
SDW 473-M01-03RT	5/16/1996	513	<0.7	26	839	118
SDW 473-M01-04BUT	5/16/1996	254	<0.7	25	678	127

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-05BKT	5/16/1996	160	<0.7	26	665	182
SDW 473-M01-06WT	5/16/1996	163	<0.7	30	710	130
SDW 473-M01-07O	5/16/1996	52	<0.7	173	497	32
SDW 473-M01-08GY	5/16/1996	<5	<0.7	125	679	61
SDW 473-M01-08GY-D	5/16/1996	<5	<0.7	122	660	56
SDW 473-M01-09Y	5/16/1996	<5	<0.7	16	772	82
SDW 473-M01-10P	5/16/1996	<5	<0.7	17	998	110
SDW 473-M01-11GN	5/16/1996	9	<0.7	39	600	170
SDW 473-M01-12R	5/16/1996	29	<0.7	19	589	94
SDW 473-M01-13BU	5/16/1996	31	<0.7	22	218	90
SDW 473-M01-14BK	5/16/1996	35	<0.7	21	181	112
SDW 473-M01-15W	5/16/1996	45	<0.7	28	213	214
SDW 473-M01-01PT	7/26/1996	27	<0.7	10	511	156
SDW 473-M01-02GNT	7/26/1996	115	0.8	21	229	127
SDW 473-M01-03RT	7/26/1996	223	<0.7	6	573	138
SDW 473-M01-04BUT	7/26/1996	118	<0.7	9	557	100
SDW 473-M01-05BKT	7/26/1996	117	<0.7	6	781	76
SDW 473-M01-06WT	7/26/1996	115	1.2	6	1082	46
SDW 473-M01-07O	7/26/1996	<5	<0.7	205	519	55
SDW 473-M01-08GY	7/26/1996	<5	<0.7	159	554	85
SDW 473-M01-08GY-D	7/26/1996	<5	<0.7	156	557	84
SDW 473-M01-09Y	7/26/1996	<5	0.8	77	633	117
SDW 473-M01-10P	7/26/1996	<5	<0.7	49	1122	107
SDW 473-M01-11GN	7/26/1996	<5	<0.7	29	833	141
SDW 473-M01-12R	7/26/1996	27	<0.7	8	565	113
SDW 473-M01-13BU	7/26/1996	31	0.8	34	219	93
SDW 473-M01-14BK	7/26/1996	32	0.8	10	183	110
SDW 473-M01-15W	7/26/1996	37	0.8	13	180	212
SDW 473-M01-01PT	11/5/1996	7	<0.7	--	236	112
SDW 473-M01-02GNT	11/5/1996	86	<0.7	--	357	135
SDW 473-M01-03RT	11/5/1996	137	<0.7	<5	371	122
SDW 473-M01-04BUT	11/5/1996	79	<0.7	<5	399	77
SDW 473-M01-04BUT-D	11/5/1996	80	<0.7	<5	398	77
SDW 473-M01-05BKT	11/5/1996	88	<0.7	<5	412	75
SDW 473-M01-06WT	11/5/1996	<5	<0.7	<5	523	77

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-07O	11/5/1996	<5	<0.7	182	692	68
SDW 473-M01-08GY	11/5/1996	<5	<0.7	177	423	117
SDW 473-M01-09Y	11/7/1996	<5	<0.7	54	525	139
SDW 473-M01-10P	11/7/1996	<5	<0.7	42	1024	115
SDW 473-M01-11GN	11/7/1996	37	<0.7	29	811	127
SDW 473-M01-12R	11/7/1996	29	<0.7	<5	212	162
SDW 473-M01-13BU	11/7/1996	36	<0.7	<5	157	92
SDW 473-M01-13BU-D	11/7/1996	35	<0.7	<5	160	92
SDW 473-M01-14BK	11/7/1996	30	<0.7	<5	193	141
SDW 473-M01-15W	11/7/1996	33	<0.7	<5	175	214
SDW 473-M01-01PT	2/18/1997	132	<0.7	<5	261	143
SDW 473-M01-02GNT	2/18/1997	147	<0.7	5	194	101
SDW 473-M01-03RT	2/18/1997	77	<0.7	5	413	101
SDW 473-M01-04BUT	2/18/1997	69	<0.7	5	504	63
SDW 473-M01-05BKT	2/18/1997	47	<0.7	5	523	48
SDW 473-M01-06WT	2/18/1997	<5	<0.7	9	649	45
SDW 473-M01-07O	2/18/1997	<5	<0.7	255	724	61
SDW 473-M01-08GY	2/18/1997	<5	<0.7	168	708	95
SDW 473-M01-08GY-D	2/18/1997	<5	<0.7	190	721	95
SDW 473-M01-09Y	2/18/1997	<5	<0.7	50	687	114
SDW 473-M01-10P	2/18/1997	<5	<0.7	40	559	163
SDW 473-M01-11GN	2/18/1997	<5	<0.7	25	568	133
SDW 473-M01-12R	2/18/1997	32	<0.7	<5	169	116
SDW 473-M01-13BU	2/18/1997	38	<0.7	<5	147	90
SDW 473-M01-14BK	2/18/1997	30	<0.7	6	171	137
SDW 473-M01-15W	2/18/1997	33	<0.7	<5	156	208
SDW 473-M01-01PT	5/14/1997	117	<0.7	<5	145	159
SDW 473-M01-02GNT	5/14/1997	83	<0.7	7	355	129
SDW 473-M01-03RT	5/14/1997	81	<0.7	5	644	78
SDW 473-M01-03RT-D	5/14/1997	81	<0.7	8	--	78
SDW 473-M01-04BUT	5/14/1997	59	<0.7	<5	823	50
SDW 473-M01-05BKT	5/14/1997	46	<0.7	<5	804	31
SDW 473-M01-06WT	5/14/1997	<5	<0.7	5	652	41
SDW 473-M01-07O	5/14/1997	<5	<0.7	219	865	79
SDW 473-M01-08GY	5/14/1997	<5	<0.7	153	901	96

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-09Y	5/14/1997	<5	<0.7	55	721	152
SDW 473-M01-10P	5/14/1997	<5	<0.7	29	388	130
SDW 473-M01-11GN	5/14/1997	8	<0.7	19	325	124
SDW 473-M01-12R	5/14/1997	27	<0.7	<5	162	102
SDW 473-M01-12R-D	5/14/1997	28	<0.7	<5	--	103
SDW 473-M01-13BU	5/14/1997	44	<0.7	<5	146	88
SDW 473-M01-14BK	5/14/1997	30	<0.7	5	176	133
SDW 473-M01-15W	5/14/1997	33	<0.7	<5	158	198
SDW 473-M01-01PT	8/14/1997	99	<0.7	<5	122	132
SDW 473-M01-02GNT	8/14/1997	162	<0.7	7	290	174
SDW 473-M01-03RT	8/14/1997	57	<0.7	15	569	115
SDW 473-M01-04BUT	8/14/1997	37	<0.7	<5	693	88
SDW 473-M01-04BUT-D	8/14/1997	38	<0.7	<5	698	96
SDW 473-M01-05BKT	8/14/1997	66	<0.7	<5	635	73
SDW 473-M01-06WT	8/14/1997	16	<0.7	8	540	59
SDW 473-M01-07O	8/14/1997	<5	<0.7	229	688	73
SDW 473-M01-08GY	8/14/1997	<5	<0.7	197	780	142
SDW 473-M01-09Y	8/14/1997	<5	<0.7	94	948	221
SDW 473-M01-10P	8/14/1997	<5	<0.7	36	546	148
SDW 473-M01-11GN	8/14/1997	<5	<0.7	28	415	83
SDW 473-M01-12R	8/14/1997	35	<0.7	11	142	117
SDW 473-M01-13BU	8/14/1997	49	<0.7	9	144	83
SDW 473-M01-13BU-D	8/14/1997	49	<0.7	17	152	112
SDW 473-M01-14BK	8/14/1997	29	<0.7	10	170	137
SDW 473-M01-15W	8/14/1997	33	<0.7	<5	156	188
SDW 473-M01-01PT	11/3/1997	87	<0.7	23	136	147
SDW 473-M01-02GNT	11/3/1997	125	<0.7	<5	372	180
SDW 473-M01-03RT	11/3/1997	82	<0.7	27	529	143
SDW 473-M01-04BUT	11/3/1997	34	<0.7	15	537	95
SDW 473-M01-04BUT-D	11/3/1997	34	<0.7	21	522	97
SDW 473-M01-05BKT	11/3/1997	43	<0.7	30	615	67
SDW 473-M01-06WT	11/3/1997	18	<0.7	35	451	70
SDW 473-M01-07O	11/3/1997	<5	<0.7	231	743	114
SDW 473-M01-08GY	11/3/1997	<5	<0.7	218	758	76
SDW 473-M01-09Y	11/3/1997	<5	<0.7	116	661	143

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-10P	11/3/1997	<5	<0.7	64	972	167
SDW 473-M01-11GN	11/3/1997	<5	<0.7	37	346	132
SDW 473-M01-12R	11/3/1997	32	<0.7	20	144	88
SDW 473-M01-13BU	11/3/1997	46	<0.7	36	152	91
SDW 473-M01-13BU-D	11/3/1997	46	<0.7	12	152	91
SDW 473-M01-14BK	11/3/1997	34	<0.7	22	178	139
SDW 473-M01-15W	11/3/1997	31	<0.7	26	179	210
SDW 473-M01-01PT	5/12/1998	393	<0.7	<5	153	113
SDW 473-M01-02GNT	5/12/1998	373	<0.7	<5	107	144
SDW 473-M01-02GNT-D	5/12/1998	373	<0.7	<5	105	147
SDW 473-M01-03RT	5/12/1998	675	<0.7	5	889	90
SDW 473-M01-04BUT	5/12/1998	232	<0.7	<5	961	73
SDW 473-M01-05BKT	5/12/1998	44	<0.7	<5	784	62
SDW 473-M01-06WT	5/12/1998	106	<0.7	12	563	59
SDW 473-M01-07O	5/12/1998	<5	<0.7	180	575	69
SDW 473-M01-08GY	5/12/1998	<5	<0.7	146	712	113
SDW 473-M01-09Y	5/12/1998	<5	<0.7	54	637	154
SDW 473-M01-10P	5/12/1998	<5	<0.7	23	921	154
SDW 473-M01-11GN	5/12/1998	<5	<0.7	10	646	90
SDW 473-M01-11GN-D	5/12/1998	<5	<0.7	15	653	89
SDW 473-M01-12R	5/12/1998	37	<0.7	<5	157	87
SDW 473-M01-13BU	5/12/1998	59	<0.7	<5	151	94
SDW 473-M01-14BK	5/12/1998	34	<0.7	8	189	151
SDW 473-M01-15W	5/12/1998	31	<0.7	<5	181	209
SDW 473-M01-01PT	10/30/1998	90	<0.7	<5	92	184
SDW 473-M01-02GNT	10/30/1998	345	<0.7	<5	469	174
SDW 473-M01-03RT	10/30/1998	544	<0.7	<5	776	118
SDW 473-M01-04BUT	10/30/1998	296	<0.7	<5	950	195
SDW 473-M01-05BKT	10/30/1998	311	<0.7	6	1028	273
SDW 473-M01-05BKT-D	10/30/1998	308	<0.7	6	1011	269
SDW 473-M01-06WT	10/30/1998	208	<0.7	30	445	180
SDW 473-M01-07O	10/30/1998	7	<0.7	128	681	78
SDW 473-M01-08GY	10/30/1998	<5	<0.7	97	903	69
SDW 473-M01-09Y	10/30/1998	<5	<0.7	41	766	82
SDW 473-M01-10P	10/30/1998	<5	<0.7	40	624	139

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-11GN	10/30/1998	149	<0.7	13	500	47
SDW 473-M01-12R	10/30/1998	38	<0.7	<5	218	78
SDW 473-M01-13BU	10/30/1998	58	<0.7	<5	147	97
SDW 473-M01-14BK	10/30/1998	32	<0.7	<5	182	130
SDW 473-M01-14BK-D	10/30/1998	33	<0.7	<5	178	130
SDW 473-M01-15W	10/30/1998	32	<0.7	5	204	189
SDW 473-M01-01PT	6/28/1999	158	<0.7	<5	114	149
SDW 473-M01-02GNT	6/28/1999	119	<0.7	<5	210	185
SDW 473-M01-02GNT-D	6/28/1999	118	<0.7	<5	208	185
SDW 473-M01-03RT	6/28/1999	56	<0.7	<5	557	109
SDW 473-M01-04BUT	6/28/1999	106	<0.7	<5	600	103
SDW 473-M01-05BKT	6/28/1999	194	<0.7	<5	473	71
SDW 473-M01-06WT	6/28/1999	153	<0.7	59	437	70
SDW 473-M01-07O	6/28/1999	<5	<0.7	117	1000	88
SDW 473-M01-08GY	6/28/1999	<5	<0.7	67	467	146
SDW 473-M01-08GY-D	6/28/1999	<5	<0.7	67	470	148
SDW 473-M01-09Y	6/28/1999	<5	<0.7	35	333	157
SDW 473-M01-10P	6/28/1999	<5	<0.7	20	237	171
SDW 473-M01-11GN	6/28/1999	43	<0.7	<5	218	76
SDW 473-M01-12R	6/28/1999	28	<0.7	<5	322	64
SDW 473-M01-13BU	6/28/1999	29	<0.7	<5	171	103
SDW 473-M01-14BK	6/28/1999	31	<0.7	<5	214	158
SDW 473-M01-15W	6/28/1999	33	<0.7	<5	197	187
SDW 473-M01-01PT	6/13/2000	49	<0.7	<5	229	114
SDW 473-M01-02GNT	6/13/2000	88	<0.7	<5	559	159
SDW 473-M01-02GNT-D	6/13/2000	57	<0.7	<5	370	118
SDW 473-M01-03RT	6/13/2000	90	<0.7	<5	886	65
SDW 473-M01-04BUT	6/13/2000	127	<0.7	<5	884	53
SDW 473-M01-05BKT	6/13/2000	178	<0.7	<5	622	88
SDW 473-M01-06WT	6/13/2000	360	<0.7	9	660	31
SDW 473-M01-07O	6/13/2000	30	<0.7	76	1197	36
SDW 473-M01-08GY	6/13/2000	<5	<0.7	56	1268	59
SDW 473-M01-09Y	6/13/2000	<5	<0.7	26	654	72
SDW 473-M01-10P	6/13/2000	<5	<0.7	9	213	63
SDW 473-M01-11GN	6/13/2000	46	<0.7	<5	153	100

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-11GN-D	6/13/2000	46	<0.7	<5	155	101
SDW 473-M01-12R	6/13/2000	57	<0.7	<5	169	101
SDW 473-M01-13BU	6/13/2000	50	<0.7	<5	190	136
SDW 473-M01-14BK	6/13/2000	29	<0.7	<5	226	175
SDW 473-M01-15W	6/13/2000	30	<0.7	<5	192	187
SDW 473-M01-01PT	8/13/2001	6	<0.7	<5	743	145
SDW 473-M01-02GNT	8/13/2001	313	<0.7	<5	267	153
SDW 473-M01-03RT	8/13/2001	90	<0.7	<5	319	131
SDW 473-M01-03RT	8/13/2001	91	<0.7	<5	321	132
SDW 473-M01-04BUT	8/13/2001	60	<0.7	<5	459	68
SDW 473-M01-05BKT	8/13/2001	31	1.1	<5	431	114
SDW 473-M01-06WT	8/13/2001	41	<0.7	<5	476	92
SDW 473-M01-07O	8/13/2001	86	<0.7	55	648	91
SDW 473-M01-08GY	8/13/2001	97	<0.7	36	730	119
SDW 473-M01-09Y	8/13/2001	48	<0.7	<5	732	102
SDW 473-M01-10P	8/13/2001	24	<0.7	<5	412	85
SDW 473 M01-11GN	8/13/2001	24	<0.7	<5	309	100
SDW 473-M01-12R	8/13/2001	23	<0.7	<5	152	235
SDW 473-M01-13BU	8/13/2001	21	<0.7	<5	160	112
SDW 473-M01-14BK	8/13/2001	24	<0.7	<5	198	156
SDW 473 M01-15W	8/13/2001	26	<0.7	<5	216	183
SDW 473-M01-01PT	6/6/2002	--	--	--	--	--
SDW 473-M01-02GNT	6/6/2002	88	<0.7	20	267	172
SDW 473-M01-03RT	6/6/2002	37	<0.7	<5	287	79
SDW 473-M01-04BUT	6/6/2002	31	<0.7	<5	320	61
SDW 473-M01-05BKT	6/6/2002	44	<0.7	<5	424	68
SDW 473-M01-05BKT-D	6/6/2002	42	<0.7	<5	425	67
SDW 473-M01-06WT	6/6/2002	59	<0.7	15	370	112
SDW 473-M01-07O	6/6/2002	56	<0.7	17	722	96
SDW 473-M01-08GY	6/6/2002	51	<0.7	<5	864	85
SDW 473-M01-09Y	6/6/2002	49	<0.7	5	877	110
SDW 473-M01-10P	6/6/2002	53	<0.7	<5	863	78
SDW 473-M01-11GN	6/6/2002	58	<0.7	<5	747	43
SDW 473-M01-12R	6/6/2002	22	<0.7	<5	176	83
SDW 473-M01-13BU	6/6/2002	25	<0.7	<5	206	108

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 473-M01-14BK	6/6/2002	25	<0.7	<5	227	156
SDW 473-M01-15W	6/6/2002	23	<0.7	<5	195	164
SDW 473-M01-01PT	5/16/2003	14	<0.7	<5	343	119
SDW 473-M01-02GNT	5/16/2003	341	<0.7	<5	159	102
SDW 473-M01-03RT	5/16/2003	228	<0.7	<5	183	219
SDW 473-M01-03RT-D	5/16/2003	226	<0.7	<5	183	218
SDW 473-M01-04BUT	5/16/2003	27	<0.7	<5	267	101
SDW 473-M01-05BKT	5/16/2003	17	<0.7	<5	292	76
SDW 473-M01-06WT	5/16/2003	37	<0.7	<5	352	122
SDW 473-M01-07O	5/16/2003	56	<0.7	<5	598	143
SDW 473-M01-08GY	5/16/2003	62	<0.7	<5	654	137
SDW 473-M01-09Y	5/16/2003	45	<0.7	<5	1068	77
SDW 473-M01-10P	5/16/2003	48	<0.7	<5	1430	71
SDW 473-M01-11GN	5/16/2003	20	<0.7	<5	292	29
SDW 473-M01-12R	5/16/2003	29	<0.7	<5	290	84
SDW 473-M01-13BU	5/16/2003	44	<0.7	<5	302	85
SDW 473-M01-14BK	5/16/2003	39	<0.7	<5	193	121
SDW 473-M01-14BK-D	5/16/2003	39	<0.7	<5	193	121
SDW 473-M01-15W	5/16/2003	36	<0.7	<5	214	120
SDW 473-M01-01PT	8/18/2004	16	<0.7	<5	257	118
SDW 473-M01-02GNT	8/18/2004	101	<0.7	<5	152	112
SDW 473-M01-03RT	8/18/2004	44	<0.7	<5	191	87
SDW 473-M01-04BUT	8/18/2004	21	<0.7	<5	531	49
SDW 473-M01-05BKT	8/18/2004	13	<0.7	<5	449	96
SDW 473-M01-06WT	8/18/2004	14	<0.7	<5	264	109
SDW 473-M01-07O	8/18/2004	26	<0.7	<5	598	71
SDW 473-M01-08GY	8/18/2004	32	<0.7	<5	704	146
SDW 473-M01-08GY-D	8/18/2004	32	<0.7	<5	700	145
SDW 473-M01-09Y	8/18/2004	34	<0.7	<5	951	171
SDW 473-M01-10P	8/18/2004	61	<0.7	<5	2092	116
SDW 473-M01-11GN	8/18/2004	37	<0.7	<5	1556	113
SDW 473-M01-12R	8/18/2004	33	<0.7	<5	1154	80
SDW 473-M01-13BU	8/18/2004	36	<0.7	<5	1364	74
SDW 473-M01-14BK	8/18/2004	38	<0.7	<5	1326	53
SDW 473-M01-15W	8/18/2004	30	<0.7	<5	585	69

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-01PT	9/22/1995	--	--	--	--	--
SDW 474-M01-02GNT	9/22/1995	46	<0.7	<5	253	125
SDW 474-M01-03RT	9/22/1995	27	<0.7	18	414	65
SDW 474-M01-04BUT	9/22/1995	25	<0.7	5	461	48
SDW 474-M01-05BKT	9/22/1995	120	<0.7	5	325	45
SDW 474-M01-06WT	9/22/1995	226	<0.7	5	540	74
SDW 474-M01-07O	9/22/1995	48	<0.7	17	378	46
SDW 474-M01-08GY	9/22/1995	26	<0.7	<5	531	103
SDW 474-M01-09Y	9/22/1995	10	<0.7	15	180	93
SDW 474-M01-10P	9/22/1995	15	<0.7	<5	239	80
SDW 474-M01-11GN	9/22/1995	16	<0.7	<5	148	84
SDW 474-M01-12R	9/22/1995	19	<0.7	<5	133	91
SDW 474-M01-13BU	9/22/1995	21	<0.7	19	100	76
SDW 474-M01-14BK	9/22/1995	16	<0.7	6	79	63
SDW 474-M01-15W	9/22/1995	24	<0.7	<5	185	165
SDW 474-M01-01PT	11/30/1995	--	--	--	--	--
SDW 474-M01-02GNT	11/30/1995	317	<0.7	<5	154	125
SDW 474-M01-03RT	11/30/1995	93	<0.7	<5	390	63
SDW 474-M01-04BUT	11/30/1995	38	<0.7	<5	511	53
SDW 474-M01-05BKT	11/30/1995	89	<0.7	<5	415	59
SDW 474-M01-06WT	11/30/1995	149	<0.7	<5	445	99
SDW 474-M01-07O	11/30/1995	52	<0.7	<5	896	76
SDW 474-M01-08GY	11/30/1995	33	<0.7	<5	998	107
SDW 474-M01-09Y	11/30/1995	27	<0.7	<5	305	152
SDW 474-M01-10P	11/30/1995	23	<0.7	<5	292	112
SDW 474-M01-11GN	11/30/1995	19	<0.7	<5	160	97
SDW 474-M01-12R	11/30/1995	21	<0.7	<5	132	93
SDW 474-M01-13BU	11/30/1995	35	<0.7	<5	141	96
SDW 474-M01-14BK	11/30/1995	53	<0.7	<5	175	114
SDW 474-M01-15W	11/30/1995	28	<0.7	<5	191	161
SDW 474-M01-01PT	1/26/1996	--	--	--	--	--
SDW 474-M01-02GNT	1/26/1996	117	<0.7	156	99	130
SDW 474-M01-03RT	1/26/1996	99	<0.7	13	424	65
SDW 474-M01-04BUT	1/26/1996	55	<0.7	8	547	61

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-05BKT	1/26/1996	61	<0.7	17	304	79
SDW 474-M01-06WT	1/26/1996	66	<0.7	14	288	116
SDW 474-M01-07O	1/26/1996	65	<0.7	20	291	115
SDW 474-M01-08GY	1/26/1996	35	<0.7	37	756	122
SDW 474-M01-08GY-D	1/26/1996	35	<0.7	22	758	123
SDW 474-M01-09Y	1/26/1996	38	<0.7	19	692	113
SDW 474-M01-10P	1/26/1996	44	<0.7	15	784	61
SDW 474-M01-11GN	1/26/1996	25	<0.7	<5	247	108
SDW 474-M01-12R	1/26/1996	25	<0.7	11	167	98
SDW 474-M01-13BU	1/26/1996	38	<0.7	19	137	94
SDW 474-M01-14BK	1/26/1996	48	<0.7	12	177	120
SDW 474-M01-15W	1/26/1996	30	<0.7	51	204	174
SDW 474-M01-01PT	3/22/1996	128	<0.7	29	531	177
SDW 474-M01-02GNT	3/22/1996	78	<0.7	40	162	187
SDW 474-M01-03RT	3/22/1996	66	<0.7	40	259	141
SDW 474-M01-04BUT	3/22/1996	119	<0.7	34	565	63
SDW 474-M01-05BKT	3/22/1996	34	<0.7	81	838	40
SDW 474-M01-06WT	3/22/1996	52	<0.7	44	390	107
SDW 474-M01-07O	3/22/1996	52	<0.7	125	722	123
SDW 474-M01-08GY	3/22/1996	37	<0.7	25	813	115
SDW 474-M01-09Y	3/22/1996	37	<0.7	37	861	113
SDW 474-M01-09Y-D	3/22/1996	37	<0.7	38	861	113
SDW 474-M01-10P	3/22/1996	48	<0.7	33	922	107
SDW 474-M01-11GN	3/22/1996	27	<0.7	22	325	112
SDW 474-M01-12R	3/22/1996	25	<0.7	16	165	102
SDW 474-M01-13BU	3/22/1996	38	<0.7	38	139	91
SDW 474-M01-14BK	3/22/1996	39	<0.7	59	177	125
SDW 474-M01-15W	3/22/1996	36	<0.7	22	199	188
SDW 474-M01-01PT	5/16/1996	134	<0.7	26	360	225
SDW 474-M01-02GNT	5/16/1996	49	<0.7	28	246	191
SDW 474-M01-02GNT-D	5/16/1996	50	<0.7	22	251	199
SDW 474-M01-03RT	5/16/1996	96	<0.7	31	404	136
SDW 474-M01-04BUT	5/16/1996	82	<0.7	30	603	70
SDW 474-M01-05BKT	5/16/1996	41	<0.7	28	722	50
SDW 474-M01-06WT	5/16/1996	65	<0.7	39	398	94

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-07O	5/16/1996	32	<0.7	18	454	154
SDW 474-M01-08GY	5/16/1996	36	<0.7	37	686	157
SDW 474-M01-09Y	5/16/1996	36	<0.7	33	730	112
SDW 474-M01-10P	5/16/1996	58	<0.7	28	1139	72
SDW 474-M01-11GN	5/16/1996	36	<0.7	21	495	80
SDW 474-M01-11GN-D	5/16/1996	37	<0.7	20	506	85
SDW 474-M01-12R	5/16/1996	30	<0.7	6	162	101
SDW 474-M01-13BU	5/16/1996	43	<0.7	6	149	89
SDW 474-M01-14BK	5/16/1996	40	<0.7	7	178	124
SDW 474-M01-15W	5/16/1996	40	<0.7	<5	199	191
SDW 474-M01-01PT	7/30/1996	116	0.8	<5	146	168
SDW 474-M01-02GNT	7/30/1996	26	0.8	6	247	157
SDW 474-M01-02GNT-D	7/30/1996	26	0.8	5	214	156
SDW 474-M01-03RT	7/30/1996	43	<0.7	<5	386	96
SDW 474-M01-04BUT	7/30/1996	77	0.8	5	431	60
SDW 474-M01-05BKT	7/30/1996	206	<0.7	<5	342	54
SDW 474-M01-06WT	7/30/1996	171	0.8	<5	395	68
SDW 474-M01-07O	7/30/1996	48	<0.7	8	646	117
SDW 474-M01-08GY	7/30/1996	37	0.8	8	893	117
SDW 474-M01-09Y	7/30/1996	32	<0.7	<5	582	94
SDW 474-M01-10P	7/30/1996	37	0.8	<5	496	107
SDW 474-M01-11GN	7/30/1996	34	0.8	<5	399	81
SDW 474-M01-11GN-D	7/30/1996	34	0.8	<5	379	80
SDW 474-M01-12R	7/30/1996	29	0.8	5	149	103
SDW 474-M01-13BU	7/30/1996	37	<0.7	<5	162	104
SDW 474-M01-14BK	7/30/1996	32	<0.7	<5	169	143
SDW 474-M01-15W	7/30/1996	35	<0.7	<5	198	204
SDW 474-M01-01PT	11/7/1996	143	<0.7	<5	347	188
SDW 474-M01-02GNT	11/7/1996	318	<0.7	8	89	87
SDW 474-M01-03RT	11/7/1996	101	<0.7	<5	106	101
SDW 474-M01-04BUT	11/7/1996	32	<0.7	<5	246	80
SDW 474-M01-05BKT	11/7/1996	92	<0.7	<5	275	77
SDW 474-M01-06WT	11/7/1996	229	<0.7	10	428	55
SDW 474-M01-07O	11/7/1996	93	<0.7	<5	749	88
SDW 474-M01-07O-D	11/7/1996	93	<0.7	<5	730	76

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-08GY	11/7/1996	46	<0.7	<5	962	115
SDW 474-M01-09Y	11/7/1996	25	<0.7	<5	492	143
SDW 474-M01-10P	11/7/1996	32	<0.7	11	366	116
SDW 474-M01-11GN	11/7/1996	30	<0.7	<5	411	79
SDW 474-M01-12R	11/7/1996	25	<0.7	8	143	97
SDW 474-M01-13BU	11/7/1996	29	<0.7	<5	146	118
SDW 474-M01-14BK	11/7/1996	27	<0.7	<5	162	142
SDW 474-M01-15W	11/7/1996	35	<0.7	<5	208	247
SDW 474-M01-01PT	5/8/1997	85	<0.7	<5	142	165
SDW 474-M01-02GNT	5/8/1997	18	<0.7	<5	234	100
SDW 474-M01-03RT	5/8/1997	18	<0.7	<5	267	61
SDW 474-M01-04BUT	5/8/1997	32	<0.7	<5	434	41
SDW 474-M01-05BKT	5/8/1997	60	<0.7	<5	674	43
SDW 474-M01-06WT	5/8/1997	145	<0.7	<5	504	63
SDW 474-M01-06WT-D	5/8/1997	146	<0.7	<5	506	63
SDW 474-M01-07O	5/8/1997	183	<0.7	6	520	73
SDW 474-M01-08GY	5/8/1997	47	<0.7	6	820	115
SDW 474-M01-09Y	5/8/1997	42	<0.7	8	683	167
SDW 474-M01-10P	5/8/1997	30	<0.7	<5	681	137
SDW 474-M01-11GN	5/8/1997	27	<0.7	<5	387	76
SDW 474-M01-12R	5/8/1997	17	<0.7	<5	140	106
SDW 474-M01-13BU	5/8/1997	19	<0.7	<5	155	117
SDW 474-M01-14BK	5/8/1997	27	<0.7	<5	204	147
SDW 474-M01-15W	5/8/1997	35	<0.7	<5	209	220
SDW 474-M01-15W-D	5/8/1997	36	<0.7	<5	210	220
SDW 474-M01-01PT	8/14/1997	274	<0.7	<5	283	127
SDW 474-M01-02GNT	8/14/1997	20	<0.7	11	244	89
SDW 474-M01-03RT	8/14/1997	35	<0.7	11	186	111
SDW 474-M01-04BUT	8/14/1997	34	<0.7	11	131	58
SDW 474-M01-05BKT	8/14/1997	24	<0.7	14	399	115
SDW 474-M01-06WT	8/14/1997	34	<0.7	15	525	71
SDW 474-M01-07O	8/14/1997	177	<0.7	12	414	90
SDW 474-M01-07O-D	8/14/1997	178	<0.7	14	419	114
SDW 474-M01-08GY	8/14/1997	162	<0.7	<5	669	96
SDW 474-M01-09Y	8/14/1997	35	<0.7	17	425	137

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-10P	8/14/1997	25	<0.7	10	304	169
SDW 474-M01-11GN	8/14/1997	21	<0.7	9	147	90
SDW 474-M01-12R	8/14/1997	19	<0.7	8	133	102
SDW 474-M01-13BU	8/14/1997	24	<0.7	31	154	110
SDW 474-M01-14BK	8/14/1997	31	<0.7	<5	207	249
SDW 474-M01-15W	8/14/1997	31	<0.7	8	165	217
SDW 474-M01-01PT	10/30/1997	92	<0.7	31	297	93
SDW 474-M01-02GNT	10/30/1997	20	<0.7	27	218	84
SDW 474-M01-03RT	10/30/1997	26	<0.7	19	134	69
SDW 474-M01-04BUT	10/30/1997	24	<0.7	20	193	60
SDW 474-M01-05BKT	10/30/1997	16	<0.7	21	322	96
SDW 474-M01-06WT	10/30/1997	63	<0.7	22	264	141
SDW 474-M01-07O	10/30/1997	162	<0.7	25	393	72
SDW 474-M01-07O-D	10/30/1997	163	<0.7	26	400	71
SDW 474-M01-08GY	10/30/1997	201	<0.7	27	487	107
SDW 474-M01-09Y	10/30/1997	80	<0.7	23	648	77
SDW 474-M01-10P	10/30/1997	23	<0.7	35	153	110
SDW 474-M01-11GN	10/30/1997	23	<0.7	18	147	90
SDW 474-M01-12R	10/30/1997	22	<0.7	22	145	100
SDW 474-M01-13BU	10/30/1997	25	<0.7	17	159	120
SDW 474-M01-14BK	10/30/1997	33	<0.7	19	208	179
SDW 474-M01-15W	10/30/1997	30	<0.7	23	164	185
SDW 474-M01-01PT	5/18/1998	630	<0.7	8	200	382
SDW 474-M01-02GNT	5/18/1998	180	<0.7	<5	391	55
SDW 474-M01-03RT	5/18/1998	31	<0.7	13	209	70
SDW 474-M01-04BUT	5/18/1998	35	<0.7	25	270	75
SDW 474-M01-05BKT	5/18/1998	16	<0.7	13	623	59
SDW 474-M01-05BKT-D	5/18/1998	16	<0.7	8	628	59
SDW 474-M01-06WT	5/18/1998	25	<0.7	<5	157	107
SDW 474-M01-07O	5/18/1998	100	<0.7	<5	506	84
SDW 474-M01-08GY	5/18/1998	49	<0.7	7	866	69
SDW 474-M01-09Y	5/18/1998	38	<0.7	<5	678	123
SDW 474-M01-10P	5/18/1998	36	<0.7	6	337	70
SDW 474-M01-11GN	5/18/1998	32	<0.7	11	206	80
SDW 474-M01-12R	5/18/1998	29	<0.7	<5	147	94

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Repert, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-13BU	5/18/1998	27	<0.7	7	162	123
SDW 474-M01-14BK	5/18/1998	38	<0.7	14	216	180
SDW 474-M01-14BK-D	5/18/1998	38	<0.7	10	220	180
SDW 474-M01-15W	5/18/1998	28	<0.7	5	170	169
SDW 474-M01-01PT	11/4/1998	27	<0.7	7	200	128
SDW 474-M01-02GNT	11/4/1998	40	<0.7	6	160	81
SDW 474-M01-03RT	11/4/1998	36	<0.7	6	190	55
SDW 474-M01-04BUT	11/4/1998	30	<0.7	6	209	63
SDW 474-M01-05BKT	11/4/1998	45	<0.7	7	318	91
SDW 474-M01-05BKT-D	11/4/1998	45	<0.7	7	321	92
SDW 474-M01-06WT	11/4/1998	63	<0.7	<5	298	81
SDW 474-M01-07O	11/4/1998	82	<0.7	7	462	71
SDW 474-M01-08GY	11/4/1998	52	<0.7	7	740	96
SDW 474-M01-09Y	11/4/1998	32	<0.7	<5	1253	119
SDW 474-M01-10P	11/4/1998	30	<0.7	<5	1841	138
SDW 474-M01-11GN	11/4/1998	33	<0.7	<5	1631	135
SDW 474-M01-12R	11/4/1998	28	<0.7	5	242	80
SDW 474-M01-13BU	11/4/1998	26	<0.7	6	170	128
SDW 474-M01-14BK	11/4/1998	34	<0.7	<5	204	201
SDW 474-M01-14BK-D	11/4/1998	34	<0.7	5	206	200
SDW 474-M01-15W	11/4/1998	30	<0.7	5	169	131
SDW 474-M01-01PT	6/16/1999	128	<0.7	5	144	132
SDW 474-M01-01PT-D	6/16/1999	128	<0.7	6	142	136
SDW 474-M01-02GNT	6/16/1999	38	<0.7	5	225	60
SDW 474-M01-03RT	6/16/1999	38	<0.7	7	619	40
SDW 474-M01-04BUT	6/16/1999	29	<0.7	5	721	52
SDW 474-M01-05BKT	6/16/1999	76	<0.7	5	344	72
SDW 474-M01-06WT	6/16/1999	218	<0.7	5	286	83
SDW 474-M01-07O	6/16/1999	81	<0.7	<5	651	129
SDW 474-M01-07O-D	6/16/1999	81	<0.7	5	655	130
SDW 474-M01-08GY	6/16/1999	39	<0.7	5	1162	147
SDW 474-M01-09Y	6/16/1999	33	<0.7	6	1319	178
SDW 474-M01-10P	6/16/1999	29	<0.7	7	1273	196
SDW 474-M01-11GN	6/16/1999	40	<0.7	5	1304	128
SDW 474-M01-12R	6/16/1999	31	<0.7	<5	507	60

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-13BU	6/16/1999	28	<0.7	5	153	124
SDW 474-M01-13BU-D	6/16/1999	28	<0.7	8	155	124
SDW 474-M01-14BK	6/16/1999	24	<0.7	5	200	200
SDW 474-M01-15W	6/16/1999	31	<0.7	5	181	158
SDW 474-M01-01PT	6/12/2000	297	<0.7	<5	139	202
SDW 474-M01-02GNT	6/12/2000	39	<0.7	<5	239	47
SDW 474-M01-03RT	6/12/2000	77	<0.7	<5	484	28
SDW 474-M01-04BUT	6/12/2000	124	<0.7	<5	548	29
SDW 474-M01-05BKT	6/12/2000	118	<0.7	<5	302	79
SDW 474-M01-06WT	6/12/2000	47	<0.7	<5	630	84
SDW 474-M01-06WT-D	6/12/2000	48	<0.7	<5	649	85
SDW 474-M01-07O	6/12/2000	26	<0.7	<5	636	141
SDW 474-M01-08GY	6/12/2000	32	<0.7	<5	717	152
SDW 474-M01-09Y	6/12/2000	28	<0.7	<5	935	113
SDW 474-M01-10P	6/12/2000	24	<0.7	<5	416	177
SDW 474-M01-11GN	6/12/2000	23	<0.7	<5	311	96
SDW 474-M01-12R	6/12/2000	26	<0.7	<5	157	95
SDW 474-M01-13BU	6/12/2000	25	<0.7	<5	211	150
SDW 474-M01-14BK	6/12/2000	31	<0.7	<5	211	177
SDW 474-M01-15W	6/12/2000	23	<0.7	<5	184	109
SDW 474-M01-01PT	6/17/2002	--	--	--	--	--
SDW 474-M01-02GNT	6/17/2002	145	<0.7	<5	232	80
SDW 474-M01-03RT	6/17/2002	30	<0.7	<5	746	41
SDW 474-M01-04BUT	6/17/2002	22	<0.7	<5	917	46
SDW 474-M01-05BKT	6/17/2002	16	<0.7	<5	1174	90
SDW 474-M01-06WT	6/17/2002	21	<0.7	<5	964	132
SDW 474-M01-07O	6/17/2002	74	<0.7	<5	714	145
SDW 474-M01-08GY	6/17/2002	50	<0.7	<5	1022	71
SDW 474-M01-09Y	6/17/2002	41	<0.7	<5	1367	63
SDW 474-M01-10P	6/17/2002	46	<0.7	<5	1609	40
SDW 474-M01-11GN	6/17/2002	49	<0.7	<5	1069	38
SDW 474-M01-12R	6/17/2002	34	<0.7	<5	449	80
SDW 474-M01-12R-D	6/17/2002	34	<0.7	<5	457	80
SDW 474-M01-13BU	6/17/2002	29	<0.7	<5	227	104
SDW 474-M01-14BK	6/17/2002	29	<0.7	<5	431	73

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 474-M01-15W	6/17/2002	25	<0.7	<5	301	95
SDW 474-M01-01PT	5/30/2003	27	<0.7	<5	54	61
SDW 474-M01-02GNT	5/30/2003	25	<0.7	<5	118	30
SDW 474-M01-03RT	5/30/2003	15	<0.7	<5	146	15
SDW 474-M01-04BUT	5/30/2003	33	<0.7	<5	1047	31
SDW 474-M01-05BKT	5/30/2003	14	<0.7	<5	1456	40
SDW 474-M01-05BKT-D	5/30/2003	14	<0.7	<5	1456	40
SDW 474-M01-06WT	5/30/2003	12	<0.7	<5	1435	46
SDW 474-M01-07O	5/30/2003	24	<0.7	<5	1027	90
SDW 474-M01-08GY	5/30/2003	33	<0.7	<5	1996	112
SDW 474-M01-09Y	5/30/2003	51	<0.7	<5	2950	88
SDW 474-M01-10P	5/30/2003	42	<0.7	<5	1783	111
SDW 474-M01-10P-D	5/30/2003	42	<0.7	<5	1778	111
SDW 474-M01-11GN	5/30/2003	44	<0.7	<5	1759	78
SDW 474-M01-12R	5/30/2003	34	<0.7	<5	880	56
SDW 474-M01-13BU	5/30/2003	33	<0.7	<5	883	36
SDW 474-M01-14BK	5/30/2003	34	<0.7	<5	877	70
SDW 474-M01-15W	5/30/2003	29	<0.7	<5	755	78
SDW 474-M01-01PT	8/26/2004	44	<0.7	<5	166	96
SDW 474-M01-02GNT	8/26/2004	21	<0.7	<5	236	61
SDW 474-M01-03RT	8/26/2004	23	<0.7	<5	314	37
SDW 474-M01-04BUT	8/26/2004	20	<0.7	<5	531	34
SDW 474-M01-05BKT	8/26/2004	15	<0.7	<5	625	119
SDW 474-M01-06WT	8/26/2004	19	<0.7	<5	696	116
SDW 474-M01-07O	8/26/2004	46	<0.7	<5	471	110
SDW 474-M01-08GY	8/26/2004	26	<0.7	<5	286	188
SDW 474-M01-09Y	8/26/2004	26	<0.7	<5	340	219
SDW 474-M01-09Y-D	8/26/2004	25	<0.7	<5	334	215
SDW 474-M01-10P	8/26/2004	42	<0.7	<5	714	286
SDW 474-M01-11GN	8/26/2004	47	<0.7	<5	2251	80
SDW 474-M01-12R	8/26/2004	43	<0.7	<5	1872	100
SDW 474-M01-13BU	8/26/2004	38	<0.7	<5	2495	77
SDW 474-M01-14BK	8/26/2004	33	<0.7	<5	1295	153
SDW 474-M01-15W	8/26/2004	34	<0.7	<5	1057	77

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

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Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 521-M01-01PT	8/14/2001	20	<0.7	<5	590	89
SDW 521-M01-02GNT	8/14/2001	133	<0.7	<5	332	177
SDW 521-M01-03RT	8/14/2001	226	<0.7	<5	296	130
SDW 521-M01-04BUT	8/14/2001	46	<0.7	<5	349	69
SDW 521-M01-05BKT	8/14/2001	44	<0.7	<5	347	99
SDW 521-M01-06WT	8/14/2001	42	<0.7	<5	487	88
SDW 521-M01-07O	8/14/2001	98	<0.7	58	897	86
SDW 521-M01-08GY	8/14/2001	96	<0.7	30	725	142
SDW 521-M01-09Y	8/14/2001	69	<0.7	15	650	128
SDW 521-M01-10P	8/14/2001	35	<0.7	<5	447	95
SDW 521-M01-11GN	8/14/2001	20	<0.7	<5	216	132
SDW 521-M01-12R	8/14/2001	22	<0.7	<5	182	289
SDW 521-M01-13BU	8/14/2001	22	<0.7	<5	165	197
SDW 521-M01-13BU-D	8/14/2001	21	<0.7	<5	165	198
SDW 521-M01-14BK	8/14/2001	23	<0.7	<5	218	167
SDW 521-M01-15W	8/14/2001	25	<0.7	<5	222	193
SDW 521-M01-01PT	6/17/2002	--	--	--	--	--
SDW 521-M01-02GNT	6/17/2002	103	<0.7	<5	199	190
SDW 521-M01-03RT	6/17/2002	47	<0.7	<5	279	122
SDW 521-M01-04BUT	6/17/2002	34	<0.7	<5	308	69
SDW 521-M01-05BKT	6/17/2002	40	<0.7	<5	370	71
SDW 521-M01-06WT	6/17/2002	54	<0.7	<5	322	110
SDW 521-M01-07O	6/17/2002	57	<0.7	51	721	96
SDW 521-M01-08GY	6/17/2002	65	<0.7	36	909	76
SDW 521-M01-09Y	6/17/2002	51	<0.7	5	854	104
SDW 521-M01-10P	6/17/2002	55	<0.7	<5	829	76
SDW 521-M01-10P-D	6/17/2002	54	<0.7	<5	825	76
SDW 521-M01-11GN	6/17/2002	49	<0.7	<5	574	46
SDW 521-M01-12R	6/17/2002	23	<0.7	<5	193	80
SDW 521-M01-13BU	6/17/2002	25	<0.7	10	195	100
SDW 521-M01-14BK	6/17/2002	25	<0.7	8	222	164
SDW 521-M01-15W	6/17/2002	22	<0.7	<5	195	163
SDW 521-M01-01PT	6/3/2003	47	<0.7	<5	209	84
SDW 521-M01-02GNT	6/3/2003	81	<0.7	<5	361	122
SDW 521-M01-03RT	6/3/2003	370	<0.7	<5	140	138

Table 7. Concentrations of anions and ammonium for water samples from wells and multilevel samplers in and near the treated-wastewater plume, Ashumet Valley, Massachusetts, 1994-2004.

[Source of data: Richard L. Smith and Deborah A. Reper, U.S. Geological Survey, National Research Program, Boulder, CO. Locations of wells and multilevel samplers are shown in figure 1. -D, duplicate; μM , micromoles per liter; <, actual value is less than value shown; --, no data]

Well or multilevel-sampler port	Date	Nitrate, dissolved (μM)	Nitrite, dissolved (μM)	Ammonium, dissolved (μM)	Chloride, dissolved (μM)	Sulfate, dissolved (μM)
SDW 521-M01-04BUT	6/3/2003	78	<0.7	<5	248	166
SDW 521-M01-05BKT	6/3/2003	18	<0.7	<5	318	79
SDW 521-M01-06WT	6/3/2003	33	<0.7	<5	379	111
SDW 521-M01-06WT-D	6/3/2003	34	<0.7	15	378	111
SDW 521-M01-07O	6/3/2003	65	<0.7	<5	466	176
SDW 521-M01-08GY	6/3/2003	69	<0.7	<5	644	120
SDW 521-M01-09Y	6/3/2003	59	<0.7	<5	891	113
SDW 521-M01-10P	6/3/2003	46	<0.7	<5	1421	65
SDW 521-M01-11GN	6/3/2003	24	<0.7	<5	433	38
SDW 521-M01-12R	6/3/2003	31	<0.7	<5	358	81
SDW 521-M01-13BU	6/3/2003	34	<0.7	<5	214	94
SDW 521-M01-14BK	6/3/2003	17	<0.7	<5	83	58
SDW 521-M01-15W	6/3/2003	28	<0.7	<5	202	106
SDW 521-M01-01PT	7/26/2004	27	<0.7	<5	225	74
SDW 521-M01-02GNT	7/26/2004	172	<0.7	<5	134	120
SDW 521-M01-03RT	7/26/2004	49	<0.7	<5	204	73
SDW 521-M01-04BUT	7/26/2004	24	<0.7	<5	589	47
SDW 521-M01-05BKT	7/26/2004	16	<0.7	<5	818	57
SDW 521-M01-06WT	7/26/2004	19	<0.7	<5	519	79
SDW 521-M01-07O	7/26/2004	31	<0.7	<5	472	92
SDW 521-M01-08GY	7/26/2004	28	<0.7	<5	595	159
SDW 521-M01-09Y	7/26/2004	32	<0.7	<5	897	172
SDW 521-M01-09P	7/26/2004	45	<0.7	<5	1792	127
SDW 521-M01-10P-D	7/26/2004	45	<0.7	<5	1787	126
SDW 521-M01-11GN	7/26/2004	38	<0.7	<5	1492	80
SDW 521-M01-12R	7/26/2004	36	<0.7	<5	1192	44
SDW 521-M01-13BU	7/26/2004	35	<0.7	<5	1130	60
SDW 521-M01-14BK	7/26/2004	31	<0.7	<5	490	77
SDW 521-M01-15W	7/26/2004	29	<0.7	<5	262	91