01102500 ABERJONA RIVER AT WINCHESTER, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°26′50", long 71°08′22", Middlesex County, Hydrologic Unit 01090001, on left bank at Winchester, 0.5 mi upstream from head of Mystic Lakes.

DRAINAGE AREA.--24.1 mi^2, excludes 0.6 mi^2 drained by Winchester North Reservoir.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: April 1939 to current year.
Water-quality records: Water year 1958–59, 1973, 1999.

REVISED RECORDS.--WDR MA-RI-79-1: 1955. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is sea level.

REMARKS.--Records good. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester North Reservoir. Some regulation by Winchester at dam 1,800 ft upstream. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--60 years, 29.5 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft^3/s, Jan. 25, 1979, gage height, 15.46 ft, from rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow, maximum gage height, 16.78 ft, Oct. 21, 1996 (backwater from Upper Mystic Lake); no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 ft^3/s, Oct. 10, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1886, that of Jan. 25, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 480 ft^3/s, Sept. 16, gage height, 13.03 ft; minimum, 1.2 ft^3/s, May 18; minimum daily, 1.4 ft^3/s, May 18, Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

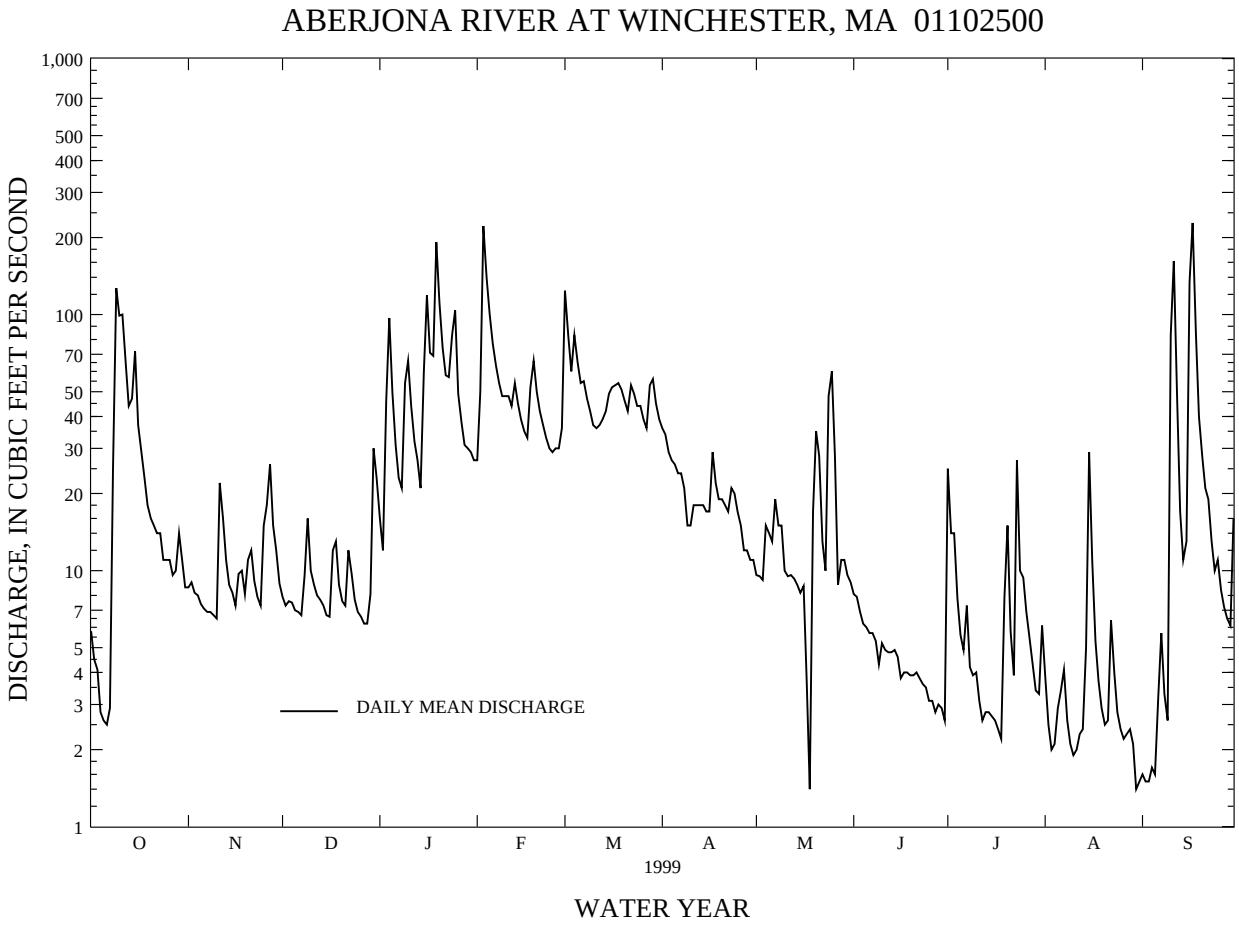
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	8.6	7.9	16	27	124	36	9.6	8.1	25	3.9	1.6
2	4.5	9.0	7.3	12	50	83	34	9.5	7.9	14	2.5	1.5
3	4.1	8.2	7.6	46	222	60	29	9.2	6.9	14	2.0	1.5
4	2.8	8.0	7.5	97	139	83	27	15	6.2	7.8	2.1	1.7
5	2.6	7.4	7.0	50	100	65	26	14	6.0	5.6	2.9	1.6
6	2.5	7.1	6.9	31	77	54	24	13	5.7	4.9	3.4	3.2
7	2.9	6.9	6.7	23	63	55	24	19	5.7	7.3	4.1	5.7
8	25	6.9	9.6	21	54	47	21	15	5.3	4.2	2.6	3.3
9	127	6.7	16	54	48	42	15	15	4.3	3.9	2.1	2.6
10	99	6.5	10	66	48	37	15	10	5.2	4.0	1.9	83
11	100	22	8.8	44	48	36	18	9.5	4.9	3.1	2.0	162
12	65	16	8.0	32	44	37	18	9.6	4.8	2.6	2.3	48
13	44	11	7.7	27	54	39	18	9.3	4.8	2.8	2.4	17
14	47	8.8	7.3	21	45	42	18	8.8	4.9	2.8	5.0	11
15	72	8.2	6.7	60	39	49	17	8.2	4.6	2.7	29	13
16	37	7.3	6.6	119	35	52	17	8.7	3.8	2.6	11	134
17	29	9.7	12	71	33	53	29	3.7	4.0	2.4	5.3	228
18	23	10	13	69	52	54	22	1.4	4.0	2.2	3.7	85
19	18	8.1	8.8	192	66	51	19	17	3.9	7.9	2.9	40
20	16	11	7.6	112	50	46	19	35	3.9	15	2.5	28
21	15	12	7.3	74	42	42	18	28	4.0	5.8	2.6	21
22	14	9.1	12	58	37	53	17	13	3.8	3.9	6.4	19
23	14	7.9	9.7	57	33	49	21	10	3.6	27	4.0	13
24	11	7.3	7.7	83	30	44	20	48	3.5	10	2.8	10
25	11	15	6.9	104	29	44	17	60	3.1	9.4	2.4	11
26	11	18	6.6	49	30	39	15	28	3.1	6.9	2.2	8.4
27	9.6	26	6.2	38	30	36	12	8.8	2.8	5.5	2.3	7.2
28	10	15	6.2	31	36	53	12	11	3.0	4.3	2.4	6.5
29	14	12	8.1	30	---	56	11	11	2.9	3.4	2.1	6.1
30	11	8.9	30	29	---	45	11	9.6	2.6	3.3	1.4	16
31	8.6	---	23	27	---	39	---	9.0	---	6.1	1.5	---
TOTAL	856.4	318.6	296.7	1743	1561	1609	600	476.9	137.3	220.4	123.7	989.9
MEAN	27.6	10.6	9.57	56.2	55.8	51.9	20.0	15.4	4.58	7.11	3.99	33.0
MAX	127	26	30	192	222	124	36	60	8.1	27	29	228
MIN	2.5	6.5	6.2	12	27	36	11	1.4	2.6	2.2	1.4	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	14.7	23.8	31.9	37.8	41.8	64.1	53.6	33.5	22.8	10.1	9.86	10.2
MAX	125	102	95.7	169	104	167	175	134	159	40.4	79.4	78.2
(WY)	1997	1956	1970	1979	1984	1983	1987	1954	1982	1959	1955	1954
MIN	.48	.59	.63	2.34	4.39	19.2	12.4	11.3	3.02	.69	.62	.49
(WY)	1942	1942	1942	1966	1980	1989	1966	1965	1957	1950	1957	1957

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1939 - 1999	
ANNUAL TOTAL	18124.0		8932.9			
ANNUAL MEAN	49.7		24.5		29.5	
HIGHEST ANNUAL MEAN					58.3	1984
LOWEST ANNUAL MEAN					8.23	1966
HIGHEST DAILY MEAN	1020	Jun 14	228	Sep 17	1070	Oct 21 1996
LOWEST DAILY MEAN	1.1	Sep 3	1.4	May 18	.25	Oct 10 1950
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 1	1.5	Aug 30	.31	Dec 6 1941
INSTANTANEOUS PEAK FLOW			480	Sep 16	1330	Jan 25 1979
INSTANTANEOUS PEAK STAGE			13.03	Sep 16	16.78	Oct 21 1996
INSTANTANEOUS LOW FLOW			1.2	May 18	.00	Oct 10 1950
10 PERCENT EXCEEDS	109		55		69	
50 PERCENT EXCEEDS	32		11		17	
90 PERCENT EXCEEDS	6.6		2.8		1.4	



01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958–59, 1973, 1999.

REMARKS.--Only volatile organic compounds measured at or above the non-detection level and pesticide compounds measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables. Volatile organic compounds analyzed by schedule 2020, and pesticide compounds analyzed by schedule 2001, are listed with non-detection values or minimum reporting levels in the section “Explanation of the Records.”

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT										
23...	0940	14	448	7.4	8.3	9.9	7.8	29	81	0.13
NOV										
24...	1050	7.2	486	7.5	15.4	8.0	8.8	30	86	.13
DEC										
15...	1330	6.6	500	7.3	12.9	4.5	10.8	33	94	.13
JAN										
19...	1415	197	670	7.0	11.0	2.0	12.8	16	170	<.10
FEB										
09...	1140	40	518	7.1	5.5	2.0	12.3	23	110	<.10
MAR										
01...	1200	129	500	7.0	10.5	3.2	12.6	15	120	<.10
08...	1040	44	1010	7.6	-1.4	.2	15.0	25	260	<.10
APR										
07...	1220	24	622	7.4	17.6	11.0	9.6	32	140	.13
12...	1030	18	624	7.4	12.8	10.8	10.1	30	130	.13
19...	0930	20	583	7.5	15.3	11.0	10.3	31	120	.12
30...	0930	11	611	7.6	15.3	12.2	10.0	36	130	.15
MAY										
05...	1020	15	523	7.3	14.6	12.0	7.6	28	110	.17
10...	1100	9.1	563	7.4	20.8	15.9	6.0	32	120	.19
14...	1000	8.8	610	--	16.7	13.8	6.4	--	--	--
17...	1030	2.0	640	7.4	19.6	14.7	5.5	38	120	.21
20...	0945	14	322	6.9	17.1	15.9	5.7	16	64	<.10
24...	0900	42	308	6.9	18.6	15.0	6.9	14	61	<.10
JUN										
02...	1015	7.5	563	7.3	23.2	21.5	5.7	29	110	.19
07...	1010	5.8	602	7.4	28.4	20.3	5.4	34	120	.19
14...	0930	4.8	617	7.3	25.3	21.1	4.1	33	120	.23
21...	0930	3.9	618	7.3	21.7	18.0	4.7	35	120	.17
28...	0930	3.1	616	7.2	31.7	22.0	5.0	34	110	.29
JUL										
06...	1040	4.3	543	7.2	30.2	24.8	3.1	31	92	.22
12...	1015	2.6	521	7.2	23.0	19.3	3.9	30	100	.27
19...	0940	2.0	576	7.2	28.4	22.3	4.2	33	110	.26
26...	1030	7.2	477	7.1	24.2	22.8	3.6	29	73	.13
AUG										
02...	1045	2.6	517	7.1	27.0	22.8	3.8	33	94	.25
09...	0845	2.3	520	7.2	19.4	19.2	3.2	32	95	.24
17...	0930	5.5	505	7.2	26.4	22.0	4.8	32	68	.12
23...	0730	4.3	535	6.9	17.9	18.0	4.1	36	87	.23
29...	1015	2.3	507	7.3	25.5	20.3	5.5	32	94	.26
SEP										
07...	0930	5.3	508	7.4	27.2	23.0	4.8	32	89	.23
11...	0800	187	150	7.5	20.4	20.3	6.6	8.4	22	<.10
17...	0950	234	215	7.1	16.4	19.0	7.0	12	34	<.10

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
23...	61	4.9	165	4.1	263	9.7	49	28	1.48	1.8	1.7	0.068
NOV												
24...	37	5.2	130	3.8	277	9.2	49	31	1.60	2.0	2.3	.016
DEC												
15...	31	6.0	177	4.0	314	10	52	37	2.25	2.6	2.2	<.010
JAN												
19...	150	2.9	146	3.3	343	4.2	96	17	1.03	1.4	1.5	<.010
FEB												
09...	220	3.9	134	2.3	281	8.0	60	22	1.11	1.4	1.5	<.010
MAR												
01...	110	2.6	127	2.2	260	4.7	70	14	.949	1.1	1.3	.012
08...	180	4.2	135	3.0	542	7.4	148	21	.956	1.2	1.2	<.010
APR												
07...	130	5.5	227	3.7	357	6.5	77	30	1.58	1.9	2.0	.029
12...	140	5.4	201	3.7	355	6.4	78	29	1.68	2.1	2.1	.028
19...	150	5.5	163	3.4	340	5.6	69	30	1.48	1.8	1.9	.033
30...	330	6.2	221	3.8	352	6.6	70	34	1.47	1.8	1.9	.047
MAY												
05...	140	5.0	228	2.9	310	6.0	59	25	1.07	1.5	1.6	.047
10...	170	5.7	333	3.7	--	7.6	65	26	.832	1.1	1.2	.064
14...	--	--	--	--	--	--	--	--	--	--	--	--
17...	210	6.6	430	4.1	368	8.8	70	35	1.52	1.7	1.7	.092
20...	110	2.9	227	2.4	183	3.9	35	15	.652	.97	1.3	.039
24...	80	2.4	192	2.1	197	3.4	32	14	.767	1.0	1.8	.040
JUN												
02...	270	5.1	327	3.1	336	8.0	56	25	.664	.94	1.1	.148
07...	140	6.1	397	1.0	367	9.8	64	28	.588	<.10	1.0	.140
14...	81	5.9	364	3.3	368	9.6	58	32	.490	.93	1.0	.126
21...	37	6.3	419	3.4	378	10	61	33	.444	.77	.91	.096
28...	87	6.2	246	3.6	353	10	62	36	.072	.41	.69	.044
JUL												
06...	51	5.1	549	3.5	333	9.2	50	43	2.40	2.8	2.7	.172
12...	39	5.3	394	3.0	348	9.5	50	26	.322	.70	.82	.096
19...	23	6.0	276	3.1	314	9.8	56	30	.087	.38	.39	.032
26...	270	4.8	319	3.4	278	8.3	42	45	3.27	3.6	3.4	.194
AUG												
02...	100	5.7	338	4.2	286	9.9	51	31	<.020	.48	.69	<.010
09...	41	5.7	267	3.1	289	9.9	51	28	.163	.44	.57	.043
17...	230	5.1	235	4.1	274	8.7	42	63	4.93	4.5	5.4	.120
23...	89	5.9	453	4.3	307	10	52	43	1.27	1.4	1.7	.210
29...	33	5.8	273	3.3	280	9.5	53	31	.132	.30	.46	.054
SEP												
07...	29	5.5	263	4.0	286	7.9	51	34	.196	.47	.71	.034
11...	230	1.4	118	1.9	86	2.7	15	14	.751	1.0	1.6	.015
17...	190	1.9	67	2.2	120	3.8	22	18	1.10	1.4	2.0	.025

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DEETHYL EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT												
23...	<0.050	<0.050	<0.010	4.9	0.20	--	--	--	--	--	--	--
NOV												
24...	<.050	.040	<.010	3.8	.70	--	--	--	--	--	--	--
DEC												
15...	E.028	E.033	.010	--	--	--	--	--	--	--	--	--
JAN												
19...	.016	.058	<.010	4.5	.70	--	--	--	--	--	--	--
FEB												
09...	.007	.026	<.010	3.7	.30	--	--	--	--	--	--	--
MAR												
01...	.008	.044	.018	3.5	.40	--	--	--	--	--	--	--
08...	.005	.024	<.010	3.5	.20	--	--	--	--	--	--	--
APR												
07...	<.004	.030	<.010	4.3	.60	<0.001	<0.0020	E0.0190	<0.0040	<0.0020	<0.002	<0.0020
12...	.007	.020	<.010	--	.40	.004	<.0020	<.0030	<.0040	<.0020	E.003	<.0020
19...	.004	.024	.013	4.1	.40	E.004	<.0020	<.0030	<.0040	<.0020	.007	<.0020
30...	.005	.024	.013	4.0	.30	.006	E.0018	<.0030	<.0040	E.0018	.005	E.0031
MAY												
05...	.008	.042	.013	5.4	.40	.005	E.0022	E.0118	<.0040	<.0020	.060	<.0020
10...	.007	.035	.013	4.6	.50	E.003	<.0020	E.0051	<.0040	E.0023	.016	<.0020
14...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.005	.032	.011	4.2	.40	.005	<.0020	E.0037	<.0040	E.0027	E.002	<.0020
20...	.014	.088	.010	6.8	.80	<.007	E.0031	E.452	.0077	<.0020	.215	<.0020
24...	.021	.095	.010	5.4	1.2	E.004	<.0020	E.493	.0057	<.0020	.247	<.0020
JUN												
02...	.008	.038	<.010	4.7	.50	<.004	<.0020	E.0076	<.0040	<.0020	.022	<.0020
07...	.007	.041	.017	--	.40	--	--	--	--	--	--	--
14...	.012	.045	<.010	4.1	.50	<.001	<.0020	E.0224	<.0040	<.0020	.006	<.0020
21...	.008	.034	<.010	3.8	--	<.001	<.0020	E.0208	<.0040	E.0042	<.002	<.0020
28...	.011	.056	<.010	4.0	--	.006	<.0020	E.0208	<.0040	E.0059	.014	<.0020
JUL												
06...	.008	.072	.010	5.7	.30	<.001	<.0020	E.104	<.0040	<.0020	.031	<.0020
12...	.009	.031	<.010	4.4	.20	<.020	<.0020	E.0735	<.0040	<.0050	.019	<.0020
19...	.006	.028	<.010	3.5	.40	<.001	<.0020	E.0231	<.0040	<.0020	<.002	<.0020
26...	.017	.045	<.010	6.4	.50	<.001	<.0020	E.0450	<.0040	<.0020	.266	<.0020
AUG												
02...	.010	.039	<.010	4.9	.30	<.006	<.0020	E.0281	<.0080	<.0040	.046	<.0020
09...	.009	.031	<.010	4.1	--	.004	<.0020	E.0184	<.0040	<.0040	.028	<.0020
17...	.012	.051	<.010	5.8	.50	<.001	<.0020	E.105	<.0040	<.0020	.101	<.0020
23...	.007	.037	<.010	4.4	--	.008	<.0020	E.196	<.0040	<.0020	.022	<.0020
29...	.004	.024	<.010	3.2	.30	.006	<.0020	E.0497	<.0040	E.0043	<.020	<.0020
SEP												
07...	.017	.051	<.010	4.8	.50	--	--	--	--	--	--	--
11...	.020	.101	<.010	4.6	1.2	--	--	--	--	--	--	--
17...	.014	.112	<.010	5.6	2.2	--	--	--	--	--	--	--

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	CHLORO-FORM TOTAL (UG/L) (32106)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
23...	--	--	--	--	--	--	--	--	--	9	49
NOV											
24...	--	--	--	--	--	--	--	--	--	11	71
DEC											
15...	--	--	--	--	--	--	--	--	--	4	88
JAN											
19...	--	--	--	--	--	--	--	--	--	7	93
FEB											
09...	--	--	--	--	--	--	--	--	--	4	79
MAR											
01...	--	--	--	--	--	--	--	--	--	9	95
08...	--	--	--	--	--	--	--	--	--	4	64
APR											
07...	0.008	0.0057	<0.0020	--	--	--	--	--	--	8	86
12...	.004	E.0041	<.0020	--	--	--	--	--	--	7	71
19...	E.003	E.0046	<.0020	E0.044	0.193	0.190	0.300	0.182	2.18	5	70
30...	.005	.0052	E.0017	--	--	--	--	--	--	6	72
MAY											
05...	<.002	<.0050	.0046	--	--	--	--	--	--	6	79
10...	E.002	E.0031	E.0036	--	--	--	--	--	--	8	89
14...	--	--	--	.107	.568	.476	.573	.282	3.40	--	--
17...	<.002	E.0046	<.0020	.105	.487	.438	.445	.234	1.90	5	98
20...	.007	<.0050	.0048	E.064	.263	E.092	E.157	E.129	1.36	12	80
24...	<.002	<.0050	.0054	--	--	--	--	--	--	12	93
JUN											
02...	<.004	<.0050	<.0020	--	--	--	--	--	--	6	89
07...	--	--	--	--	--	--	--	--	--	8	75
14...	<.002	<.0050	<.0020	--	--	--	--	--	--	7	81
21...	<.002	<.0050	<.0020	--	--	--	--	--	--	11	56
28...	E.004	<.0050	E.0023	.329	1.53	1.06	.348	.177	.213	9	66
JUL											
06...	<.004	<.0050	<.0020	.272	1.21	.518	.268	.146	.329	7	84
12...	.006	<.0050	E.0014	--	--	--	--	--	--	3	88
19...	<.002	<.0050	<.0020	--	--	--	--	--	--	2	80
26...	<.002	<.0050	<.0020	--	--	--	--	--	--	4	82
AUG											
02...	<.002	<.0050	<.0020	.481	1.87	.586	.276	.152	.301	3	78
09...	<.002	<.0050	<.0020	--	--	--	--	--	--	3	67
17...	<.002	<.0050	<.0020	--	--	--	--	--	--	4	82
23...	<.002	<.0050	<.0020	--	--	--	--	--	--	3	78
29...	<.002	<.0050	<.0020	--	--	--	--	--	--	5	50
SEP											
07...	--	--	--	.387	1.41	.459	.246	E.107	E.160	6	88
11...	--	--	--	<.048	E.048	E.014	E.036	E.039	E.150	17	77
17...	--	--	--	--	--	--	--	--	--	29	90