01112900 BLACKSTONE RIVER AT MANVILLE, RI
(National Water Quality Assessment Site)

LOCATION.--Lat 41°58′18", long 71°28′14", Providence County, Hydrologic Unit 01090003, at Manville Road Bridge,400 ft downstream from milldam at Manville, and 2.5 mi downstream from Woonsocket Sewage Treatment Plant.

PERIOD OF RECORD.--Water years 1970, 1979 to current year.

REMARKS.--Discharge obtained from gage at Woonsocket and inflow from Woonsocket Treatment Plant on the day of sampling. Instantaneous records are representative of the cross section. National Water Quality Assessment Site water-quality samples collected according to National Water Quality Assessment protocols.

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 FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
NOV												
19...	1000	307	352	6.8	0.0	8.0	40	2.2	766	10.8	91	15
AUG												
12...	0945	71	573	7.3	24.0	23.0	110	--	755	7.2	85	38
SEP												
14...	1400	229	323	7.1	25.0	20.0	38	--	760	9.7	107	21
30...	0830	167	444	7.1	22.5	19.0	50	--	748	9.1	100	25

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
NOV												
19...	1.0	330	170	--	--	--	--	--	--	--	33	0
AUG												
12...	5.0	45	50	56	17	3.1	80	72	5	8.0	52	0
SEP												
14...	2.0	1,900	2,200	40	12	2.3	41	67	3	4.1	28	0
30...	2.0	610	640	50	15	2.8	64	71	4	5.7	30	0

DATE	HY-DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)
NOV												
19...	0	27	--	--	--	--	4	199	0.078	1.25	1.88	2.4
AUG												
12...	0	43	47	110	0.50	302	5	336	.337	1.41	3.41	4.4
SEP												
14...	0	23	29	59	.22	169	1	192	.206	1.12	.408	.53
30...	0	25	44	83	.26	244	4	263	.255	2.01	.864	1.1

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

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

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
NOV												
19...	1.2	3.1	4.3	0.797	0.603	80	17	<1.0	2	1	14	<1.0
AUG												
12...	1.7	5.1	6.5	1.56	1.12	60	--	--	2	--	--	--
SEP												
14...	.91	1.3	2.4	.717	.535	110	--	--	3	--	--	--
30...	.85	1.7	3.7	1.29	1.08	90	--	--	2	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
NOV												
19...	<1.0	<1.0	<1.0	4.8	420	<1.0	54	59	<0.10	2.2	6.7	<1
AUG												
12...	<1.0	--	--	--	490	<1.0	210	--	<.10	--	--	--
SEP												
14...	2.0	--	--	--	640	1.2	190	--	<.10	--	--	--
30...	.21	--	--	--	510	.99	110	--	<.10	--	--	--

DATE	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	P,P'-DDD, RECOVER IN BOTTOM MATERIAL (UG/KG) (39363)	P,P'-DDE, RECOVER IN BOTTOM MATERIAL (UG/KG) (39368)	P,P'-DDT, RECOVER IN BOTTOM MATERIAL (UG/KG) (39373)
NOV											
19...	<0.20	18	<1.0	8.1	<4	--	--	--	--	--	--
AUG											
12...	<.20	--	--	12	4	--	--	--	--	--	--
SEP											
14...	<.20	--	--	7.7	<4	56.0	0.860	11.0	9.20	4.00	3.10
30...	<.20	--	--	8.0	<4	--	--	--	--	--	--

DATE	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN I TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
14...	31.0	<0.400	<0.320	<0.200	<0.200	<0.200	<7.50	<0.200	<200	6	92
NOV											
19...	--	--	--	--	--	--	--	--	--	8	65
AUG											
12...	--	--	--	--	--	--	--	--	--	7	89
SEP											
14...	31.0	<0.400	<0.320	<0.200	<0.200	<0.200	<7.50	<0.200	<200	6	92
30...	--	--	--	--	--	--	--	--	--	6	64

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(National Water Quality Assessment Site)

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)
JAN									
20...	1045	2,360	341	6.8	6.9	1.3	14.3	7.1	81
AUG									
16...	1100	195	470	7.2	25.6	23.3	7.7	15	87
SEP									
17...	0945	2,610	139	7.3	18.3	19.8	9.0	8.3	39

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	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)
JAN										
20...	<0.10	120	1.5	102	2.2	182	5.6	50	11	0.516
AUG										
16...	.32	42	2.8	15	7.7	265	4.3	60	.46	1.13
SEP										
17...	.12	210	1.6	140	3.4	123	4.2	26	15	.176

DATE	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)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN										
20...	0.79	1.0	0.010	0.140	0.208	0.117	4.5	0.80	5	58
AUG										
16...	1.8	2.3	.116	.636	.727	.578	6.6	.90	3	88
SEP										
17...	.52	1.2	.016	.129	.616	.113	5.3	>4.0	60	51