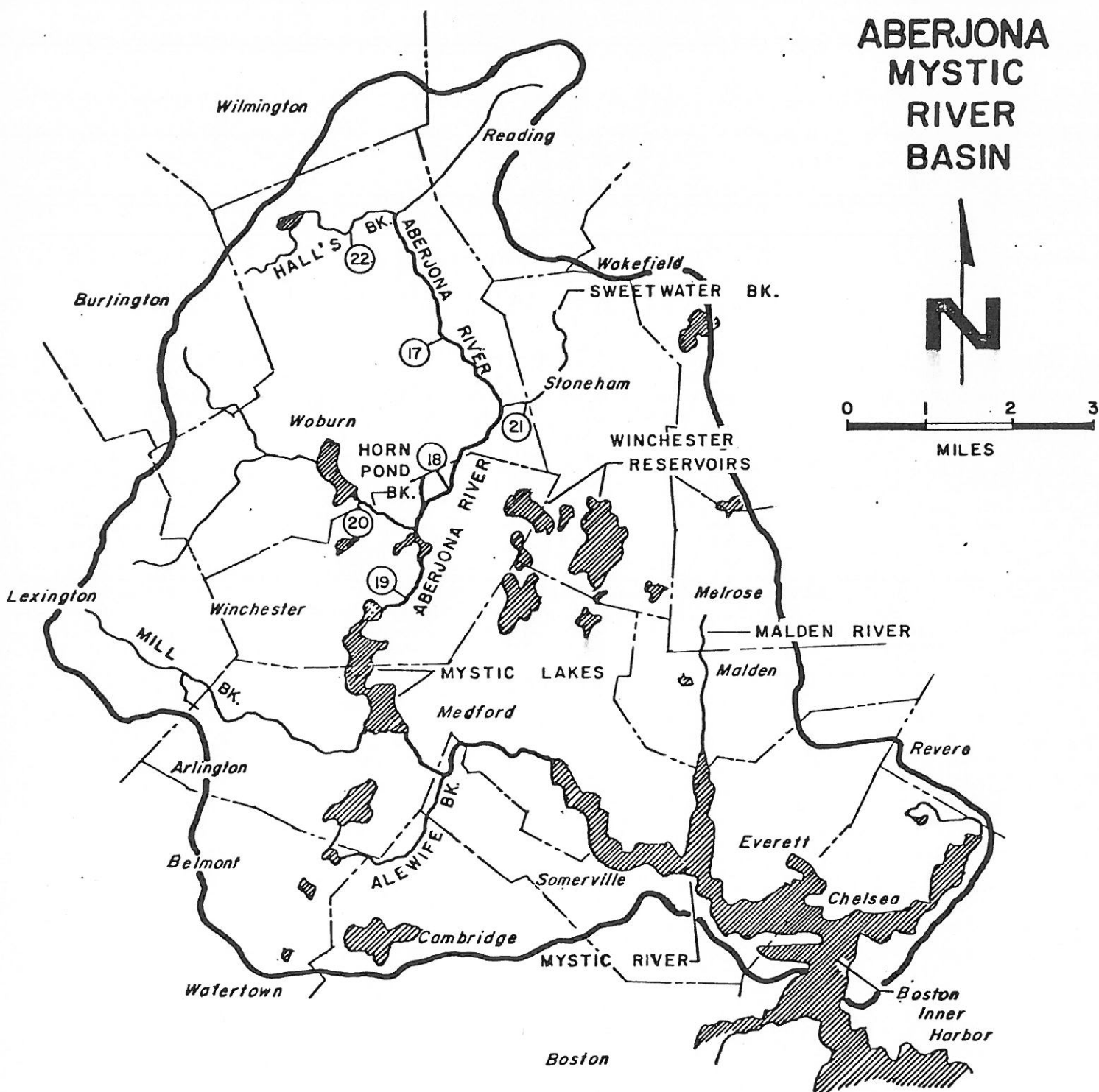


LOCATION OF MONITORING STATIONS



Water Quality
Report
probably
1976 or 7

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
LOCATION OF MONITORING STATIONS

<u>STATION</u>	<u>STREAM</u>	<u>LOCATION</u>	<u>MUNICIPALITY</u>
17	Aberjona River	Salem Street	Woburn
18	Aberjona River	Washington Street	Winchester
19	Aberjona River	USGS Gage	Winchester
20	Horn Pond Brook	Route 38	Winchester
21	Sweetwater Brook	Maple Street	Woburn
22	Hall's Brook	New Boston Road	Woburn

727-
3855

maybe
Hall's Brook ammonia - ground water
can narrow down contamination
where coming from from St. Jean
Sweetwater Stoneham Sewage
coliform high Abq, Sweetwater
zinc no lead

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 TIME - TEMPERATURE - DISSOLVED OXYGEN

<u>STATION</u>		<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	*	1415	1350	1315	1330
	**	46	61	81	73
	***	9.7	7.6	10.4	4.2
18		1435	1400	1330	1345
		45	58	75	70
		10.4	9.9	5.2	4.9
19		1500	1415	1345	1400
		42	59	75	67
		11.5	8.9	6.1	7.5
20		1445	1405	1340	1355
		42	59	79	73
		11.7	11.0	8.9	4.4
21		1430	1425	1320	1335
		46	57	73	69
		11.0	11.7	2.4	1.3
22		1400	1335	1300	1315
		47	60	77	66
		7.7	8.0	4.0	5.3

* Time
 ** Temperature (°F)
 *** Dissolved Oxygen (mg/l)

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
CHEMICAL OXYGEN DEMAND DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	55	52	61	50
18	66	58	51	45
19	25	47	67	55
20	45	58	56	45
21	86	58	82	75
22	60	37	41	40

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 5-DAY BIOCHEMICAL OXYGEN DEMAND DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	7.8	9.0	3.0	1.2
18	10.0	8.7	2.7	3.3
19	6.0	8.7	3.0	0.0
20	1.8	6.0	2.4	1.2
21	4.2	3.6	40	38
22	1.8	2.4	1.5	1.8

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
pH DATA (Standard Units)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	7.2	7.4	7.4	7.3
18	8.8	7.6	7.3	7.4
19	7.3	7.5	7.2	7.4
20	7.2	7.8	8.4	7.3
21	7.1	8.0	7.1	7.3
22	6.8	7.2	6.8	7.5

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 SUSPENDED SOLIDS DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	1.0	0.0	1.0	3.5
18	10.0	0.0	2.0	9.0
19	5.0	0.0	4.0	3.5
20	4.0	2.0	0.5	5.5
21	35.0	0.0	38	15
22	3.0	0.0	6.0	14

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 DISSOLVED SOLIDS DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	291	306	353	480
18	332	322	350	401
19	289	306	388	598
20	208	238	259	260
21	359	350	282	283
22	267	202	212	220

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 TOTAL SOLIDS DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	292	306	354	484
18	342	322	352	410
19	294	306	392	602
20	212	240	260	266
21	394	350	320	298
22	270	202	218	234

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 TURBIDITY DATA (NTU)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	3.5	4.1	4.2	2.2
18	6.2	3.5	2.8	3.6
19	3.1	3.3	2.3	1.0
20	1.9	3.8	1.6	3.2
21	17	3.5	11	5.6
22	1.2	1.8	17	3.2

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 TOTAL ALKALINITY DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	45	54	64	57
18	57	50	51	44
19	38	44	48	63
20	34	32	43	38
21	27	42	66	74
22	28	39	62	51

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
HARDNESS DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	95	96	124	137
18	95	102	111	141
19	88	95	118	175
20	70	68	73	60
21	76	105	83	76
22	71	72	77	61

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
TOTAL KJELDAHL-NITROGEN DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	8.5	9.0	5.3	7.9
18	4.3	7.0	2.0	3.4
19	3.1	4.1	1.4	1.2
20	0.92	0.70	0.82	1.4
21	1.7	1.0	6.8	6.0
22	0.93	0.75	1.1	0.95

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
AMMONIA-NITROGEN DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	8.0	8.6	4.9	6.8
18	4.0	6.5	1.7	3.1
19	2.4	3.5	0.48	0.10
20	0.09	0.02	0.15	0.18
21	0.05	0.12	2.2	5.9
22	0.09	0.00	0.24	0.07

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
NITRATE-NITROGEN DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	1.6	5.0	3.5	4.8
18	2.2	4.3	2.8	4.8
19	1.4	3.7	2.4	1.4
20	0.6	1.0	0.1	0.1
21	1.7	2.7	1.0	0.0
22	1.0	0.2	0.3	0.4

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
TOTAL PHOSPHORUS DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	0.08	0.04	0.02	0.05
18	0.10	0.06	0.06	0.09
19	0.10	0.07	0.04	0.05
20	0.24	0.08	0.03	0.09
21	0.48	0.21	1.8	2.0
22	0.08	0.07	0.11	0.12

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 TOTAL COLIFORM DATA (per 100 ml)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	100	820	500	1,400
18	2,000	3,000	21,000	6,800
19	680	1,600	2,000	1,800
20	300	1,500	1,000	700
21	36,000	42,000	200,000	4,500,000
22	220	900	1,400	1,100

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 FECAL COLIFORM DATA (per 100 ml)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	10	30	240	40
18	60	400	1,200	145
19	10	300	240	140
20	60	100	90	20
21	4,300	7,200	25,000	700,000
22	<5	5	130	180

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
CADMIUM DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
IRON DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	1.1	0.60	0.80	0.65
18	1.2	0.53	0.55	0.25
19	0.70	0.57	0.70	0.25
20	0.30	0.20	0.50	0.65
21	1.2	0.45	1.0	0.60
22	0.42	0.30	3.1	2.1

TABLE
 DWPC - MAPC 208 MONITORING PROGRAM
 ABERJONA RIVER BASIN
 LEAD DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	0.00	0.00	0.00	0.00
18	0.03	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.12	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
MANGANESE DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	0.20	0.03	0.05	0.22
18	0.18	0.07	0.15	0.16
19	0.16	0.10	0.15	0.08
20	0.12	0.05	0.05	0.23
21	0.15	0.11	0.07	0.14
22	0.08	0.04	0.40	0.35

TABLE
DWPC - MAPC 208 MONITORING PROGRAM
ABERJONA RIVER BASIN
ZINC DATA (mg/l)

<u>STATION</u>	<u>MARCH 21</u>	<u>MAY 2</u>	<u>JULY 5</u>	<u>SEPTEMBER 6</u>
17	0.24	0.12	0.05	0.05
18	0.18	0.12	0.03	0.01
19	0.13	0.10	0.00	0.00
20	0.03	0.02	0.00	0.00
21	0.13	0.03	0.00	0.00
22	0.05	0.04	0.00	0.00