



Saugus River Watershed Council

2 September 2003

Ms. Pam Lombard
U.S. Geological Survey
196 Whitten Road
Augusta, ME 04330

Dear Pam:

Pursuant to our telephone conversation, I am enclosing 1998 - 2002 results from the Saugus River Watershed Council's water quality sampling program for the following parameters:

- dissolved oxygen
- temperature
- pH
- bacteria (fecal coliform 1998 - 2000, e-coli 2001 - 2002)

Please note, the Saugus Iron Works - SR8 sampling site is located in the Saugus River, directly upstream of the Saugus Iron Works facility. Please call me at (978) 741-1713 if you have questions or need further information.

Sincerely,

Joan LeBlanc
Executive Director

Saugus River Watershed
Water Quality Monitoring - Dissolved Oxygen
1998-2002

2002 Sampling Season

Site #		April	May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	10.00	9.29	8.96	7.87	6.46	6.86	8.67	9.60	8.47
SR 2	L. Quannapowitt		9.94	11.75	8.20	5.00		4.75	10.67	8.38
SR 3	Dam @ Colonial		6.97							6.97
SR 4	Water Street	8.75	7.75	7.38	6.50	2.75	4.10	6.75		6.28
SR 5	Breakheart Bridge				6.60	7.50	8.60	10.00	10.00	8.54
SR 6	Route 1	9.80	8.40	6.20	6.87	4.30	5.40	9.60	9.15	7.47
SR 7	Prankers Pond	11.00	9.60	8.20	6.60	5.55	7.30	9.70		8.28
SR 8	Iron Works	9.87	8.40	8.60	7.67	7.27	7.47	7.00	10.30	8.32
SR 9	Old RR Bridge			8.50						8.50
SR10	Boston St.	8.10	8.20	7.10	7.65					7.76
SR11	Ballard St.	9.75	8.75	8.10	5.70	8.00	5.50		8.10	7.70
SRT2	Mill River & Farm	10.20	7.80	7.90	8.30	5.30	3.77	5.53		6.97
SRT3	Mill River @ Town Brook	9.87								9.87
SRT4	Shute Brook	12.40	10.60	9.55		7.70	9.00	9.90	10.00	9.88
SRT6	Strawberry Br.	7.95	10.05	8.50		8.10				8.65
SRT8	Pt. Of Pines	14.00	15.00	15.00	15.00	12.00	11.00	15.00		13.86
SRT9	Trifone Brook	8.10	9.05	9.75	7.50	4.10	6.50	8.50	9.00	7.81
SRT10	Town Line Brook @ Rt. 1		8.80							8.80
SRT11	Town Line Brook @ Cemeteries	10.25	10.00							10.13

2001 Sampling Season

Site #		May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	8.77	5.91	7.51	6.64	7.69	6.93	8.31	7.40
SR 2	L. Quannapowitt	8.00	7.67	12.00					9.22
SR 3	Dam @ Colonial	10.00					7.63	9.73	9.12
SR 4	Water Street	9.70	7.00		5.50	8.13	5.88		7.24
SR 5	Breakheart Bridge	8.80	4.90	6.70	5.65		5.80	9.40	6.88
SR 6	Route 1	9.50	5.70	5.40	5.10	8.50	7.10	9.20	7.21
SR 7	Prankers Pond	9.63	6.40	7.25	6.87	7.85	6.55		7.43
SR 8	Iron Works	10.10	5.67	7.33	6.07	8.53	8.80	8.67	7.88
SR 9	Old RR Bridge	7.25			6.00		8.17		7.14
SR10	Boston St.	7.60	6.95		12.80			6.40	8.44
SRT2	Mill River	6.60	3.25	5.75	5.15	5.10	4.20	5.55	5.09
SRT4	Shute Brook	8.60	7.63	9.50		9.30	7.20		8.45
SRT6	Strawberry Br.	6.80	4.33	6.13					5.76
SRT8	Pt. Of Pines	10.20	7.00	7.50					8.23
SRT9	Trifone Brook	10.00	4.40			7.85	8.20	7.53	7.60
SRT10	Town Line Brook - Rt 1					6.30	6.73	10.00	7.68
SRT11	TLB - Cemetary						12.53		12.53

2000 Sampling Season

Site #		June	July	August	Sept.	Oct.	Nov.	Dec.	Avg.
	Monthly Average	6.81	6.70	7.11	7.28	7.79	9.74	9.94	7.34
SR 3	Dam @ Colonial	5.00	6.00	7.60	6.20	11.40	10.40		7.77
SR 4A	Water Street	6.50	6.20	7.25	7.10	6.55	9.75		7.23
SR 6	Route 1	8.40	7.63	7.00	8.53	10.93	12.90	11.13	9.50
SR 7	Prankers Pond	7.33	6.27	7.53	7.30	8.07	10.87		7.89
SR 8	Iron Works	6.93	6.97	7.90	7.60	8.77	5.40	8.60	7.45
SR 9	RR Bridge/Hamilton St.	4.60	7.00	6.10	4.77	7.13			5.92
SR10	Boston St.			6.15	7.07				6.61
SR11	Ballard Street	7.00		6.53		2.37			5.30
SRT2	Mill River	7.25	4.80	6.00	7.00	4.20	8.80	10.10	6.88
SRT4	Shute Brook	8.00	8.15	9.60	8.70	9.67	10.00		9.02
SRT6	Strawberry Br.	4.40	6.80	5.30	5.70				5.55
SRT8	Pt. Of Pines	9.50	7.20	8.35	10.15	8.85	9.80		8.98

Saugus River Watershed
Water Quality Monitoring - Dissolved Oxygen
1998-2002

1999 Sampling Season

Site #		June	July	August	Sept	Oct.	Nov.	Dec.	Avg.
	Monthly Average	7.23	6.65	6.16	6.20	7.52	9.25		7.16
SR 2	L. Quannapowitt	4.50			8.50	7.10			6.70
SR 3	Dam @ Colonial	10.00	9.00	5.00	3.20	10.00	11.20		8.07
SR 4	Camp Nihan Bridge	6.20	3.60		3.00	6.00	8.20		5.40
SR 5	Breakheart Mill	5.45	6.63	7.70	4.90	5.10	11.10		6.81
SR 6	Route 1	7.20	6.60	7.80	6.20	6.80	8.30		7.15
SR 7	Prankers Pond	5.40	5.20	5.20		7.00	8.00		6.16
SR 8	Iron Works	8.00	7.40	6.20	6.00	4.20	9.00		6.80
SR 9	RR Bridge/Hamilton St.	6.40	6.80	6.30	6.70	10.00	10.00		7.70
SR11	Ballard Street	10.00	7.20		8.50	10.10	9.10		8.98
SRT2	Mill River	8.00	5.00	3.00	5.75	5.10	6.25		5.52
SRT4	Shute Brook	8.40		7.25	8.35	9.00	10.10		8.62
SRT6	Strawberry Br.	6.25	6.50	6.10	6.75	8.00			6.72
SRT8	Pt. Of Pines	8.20	9.20	7.00	6.55	9.40	10.55		8.48

1998 Sampling Season

Site #		June	July	August	Sept.	Oct.	Nov.	Dec.	Avg.
	Monthly Average	5.44	5.46	5.63	6.61	6.81	7.39	9.19	6.36
SR 2	L. Quannapowitt	8.40	7.02	7.40		8.90	8.50	5.32	7.59
SR 3	Dam @ Colonial	6.40	2.10	3.40		4.80	8.16	8.40	6.07
SR 4	Camp Nihan Bridge	2.20	2.80	4.40		5.80	6.40		4.32
SR 6	Route 1	4.25	6.00	5.55	7.90	7.30	9.45	10.00	7.21
SR 7	Prankers Pond	4.80	6.60	6.70	7.60	7.22	6.90	11.80	7.37
SR 8	Iron Works	6.80	7.90	8.60		7.80	8.10	12.20	7.84
SR 9	RR Bridge/Hamilton St.	0.20		4.20	6.60	8.30	3.10	9.60	5.33
SR10	Boston St.		2.45	2.65	3.10	4.90	3.90	9.23	4.37
SR11	Ballard Street	2.80	7.10	7.20	8.95	4.20	5.70	4.65	5.99
SRT2	Mill River		1.50	1.70	2.55				1.92
SRT4	Shute Brook	8.60	8.40	8.15	8.10		9.50	11.05	8.97
SRT6	Strawberry Br.	7.75	6.00	5.75	6.00	8.35	9.50	8.90	7.46
SRT8	Pt. Of Pines	7.60	7.68	7.50	8.65	7.31	9.45	9.90	8.30

Saugus River Watershed
Water Quality Monitoring - pH
1998-2002

2002 Sampling Season

Site #		April	May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	7.35	7.12	7.44	7.53	7.46	7.34	7.20	6.69	7.27
SR 2	L. Quannapowitt		6.83	8.50	8.50	7.00		6.75	6.83	7.40
SR 3	Dam @ Colonial		6.75							6.75
SR 4	Water Street	7.50	7.00	7.00	7.50	7.50	7.25	7.25		7.29
SR 5	Breakheart Bridge				7.00	7.00	7.00	7.00	6.00	6.80
SR 6	Route 1	7.60	7.00	7.00	7.15	7.25	6.80	7.00	6.00	6.98
SR 7	Prankers Pond	7.40	7.10	7.05	7.00	7.00	7.00	7.00		7.08
SR 8	Iron Works	7.50	7.00	7.00	7.50	7.50	7.50	7.50	7.00	7.31
SR 9	Old RR Bridge			8.00						8.00
SR10	Boston St.	7.50	7.00	7.25	7.50					7.31
SR11	Ballard St.	7.50	7.30	8.00	7.75	8.00	8.00		7.25	7.69
SRT2	Mill River & Farm	6.90	6.80	6.90	7.50	7.00	7.00	6.90		7.00
SRT3	Mill River @ Town Brook	6.75			7.00					6.88
SRT4	Shute Brook	7.90	7.25	7.00		7.50	7.50	7.50	7.00	7.38
SRT6	Strawberry Br.	7.25	7.25	8.00		7.25	7.25			7.40
SRT8	Pt. Of Pines	7.75	7.50	8.25	8.50	8.00	8.50	8.00		8.07
SRT9	Trifone Brook	7.25	7.50	7.50	7.75	7.75	7.50	7.25	6.75	7.41
SRT10	Town Line Brook @ Rt. 1	7.17	7.33							7.25
SRT11	Town Line Brook @ Cemeteries	7.00	7.20	6.75	7.20	8.25	6.75	7.00		7.16

2001 Sampling Season

Site #		May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	7.47	7.18	7.19	7.32	7.34	7.13	7.35	7.28
SR 2	L. Quannapowitt	6.50	7.87	6.70					7.02
SR 3	Dam @ Colonial	8.50					7.00	7.25	7.58
SR 4	Water Street	7.50	7.50		7.00	7.50	7.00		7.30
SR 5	Breakheart Bridge	7.25	6.50	7.25	7.25		7.00	7.00	7.04
SR 6	Route 1	7.50	7.40	7.25	7.00	7.00	7.00	7.20	7.19
SR 7	Prankers Pond	7.40	7.00	7.25	7.00	7.30	7.00		7.16
SR 8	Iron Works	7.50	7.00	7.25	7.50	7.00	7.00	7.00	7.18
SR 9	Old RR Bridge	8.17			7.50		7.50		7.72
SR10	Boston St.	7.25	6.75		8.50			8.50	7.75
SRT2	Mill River	6.80	6.50	6.80	6.80	6.80	6.75	6.80	6.75
SRT4	Shute Brook	7.20	6.70	7.25		7.10	7.40		7.13
SRT6	Strawberry Br.	7.00	7.00	7.00					7.00
SRT8	Pt. Of Pines	8.25	8.50	8.00					8.25
SRT9	Trifone Brook	7.75	7.50			8.25	7.67	7.75	7.78
SRT10	Town Line Brook - Rt 1					7.75	7.17	7.33	7.42
SRT11	TLB - Cemetery						7.25		7.25

2000 Sampling Season

Site #		June	July	August	Sept.	Oct.	Nov.	Dec.	Avg.
	Monthly Average	7.23	6.92	7.33	7.31	7.39	7.27	6.72	7.17
SR 3	Dam @ Colonial	6.70	6.70	6.70	6.70	6.70	6.70		6.70
SR 4A	Water Street	7.50	6.50	7.00	7.00	7.50	7.00		7.08
SR 6	Route 1	7.50	6.80	7.25	7.40	7.00	7.00	6.75	7.10
SR 7	Prankers Pond	6.75	6.75	6.75	7.25	7.25	7.25		7.00
SR 8	Iron Works	7.50		7.50	7.25	7.50	7.50	7.00	7.38
SR 9	RR Bridge/Hamilton St.	7.50	7.00	7.50	7.50	7.75			7.45
SR10	Boston St.			7.75	7.75				7.75
SR11	Ballard Street	7.40		8.20		8.00			7.87
SRT2	Mill River	6.80	6.80	6.80	6.80	6.90	6.70	6.40	6.74
SRT4	Shute Brook	6.90	6.70	7.25	7.25	7.25	7.50		7.14
SRT6	Strawberry Br.	7.00	7.00	7.00	7.00				7.00
SRT8	Pt. Of Pines	8.00	8.00	8.30	8.50	8.00	8.50		8.22

Saugus River Watershed
Water Quality Monitoring - pH
1998-2002

1999 Sampling Season								
Site #		June	July	August	Sept	Oct.	Nov.	Avg.
	Monthly Average	7.28	7.47	6.89	7.11	7.02	7.20	7.13
SR 2	L. Quannapowitt	6.50			7.00	6.80		6.77
SR 3	Dam @ Colonial	7.60	7.75	6.90	6.30	6.50	6.75	6.94
SR 4	Camp Nihan Bridge	7.00	6.25		7.50	7.00	6.85	6.92
SR 5	Breakheart Mill	6.75	7.00	7.00	7.00	6.75	7.00	6.92
SR 6	Route 1	7.10	7.50	7.25	6.25	6.50	7.00	6.94
SR 7	Prankers Pond	7.50	7.25	6.75	6.75	6.75	6.75	6.93
SR 8	Iron Works	7.50	7.50	4.75	7.00	7.00	7.00	6.82
SR 9	RR Bridge/Hamilton St.	7.30	7.70	7.60	7.50	7.50	7.50	7.52
SR11	Ballard Street	8.00	8.00	7.50	8.00	7.40	8.00	7.82
SRT2	Mill River	7.25	7.25	6.25	6.80	6.80	6.80	6.85
SRT4	Shute Brook	7.40		6.80	7.30	7.20	7.10	7.16
SRT6	Strawberry Br.	7.00	7.75	7.00	7.00	7.00		7.15
SRT8	Pt. Of Pines	7.80	8.25	8.00	8.00	8.00	8.50	8.09

1998 Sampling Season								
Site #		June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	7.13	7.23	7.12	7.54	7.10	7.08	7.20
SR 2	L. Quannapowitt	8.00	7.75	7.00		6.75	6.70	7.08
SR 3	Dam @ Colonial	7.00	6.80	6.90	6.80	7.00	6.50	6.83
SR 4	Camp Nihan Bridge	6.70	7.00	7.20		7.00	6.80	6.94
SR 6	Route 1	6.75	7.00	6.50	7.25	8.00	7.00	7.07
SR 7	Prankers Pond	6.75	6.75	6.80	6.75	6.50	6.75	6.72
SR 8	Iron Works	7.00	7.50			7.00	7.00	7.20
SR 9	RR Bridge/Hamilton St.	7.20		7.70	8.00		7.00	7.38
SR10	Boston St.		7.40	7.60	7.50	7.45	8.20	7.69
SR11	Ballard Street	6.75	7.75	6.90	8.20	7.25	7.25	7.44
SRT2	Mill River		6.50	6.75	7.00			6.75
SRT4	Shute Brook	7.30	7.30	7.10	7.40		7.30	7.27
SRT6	Strawberry Br.	7.00	7.00	7.00	8.00	7.00	7.00	7.07
SRT8	Pt. Of Pines	8.00	8.00	8.00	8.50	7.00	7.50	7.86

Saugus River Watershed
Water Temperatures
1998-2002

2002 Sampling Season

Site #		April	May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	12.04	12.20	14.91	21.06	24.35	19.71	10.59	6.07	15.12
SR 2	L. Quannapowitt		13.20	23.00		28.50		13.00	5.40	16.62
SR 3	Dam @ Colonial									-
SR 4	Water Street	13.00	10.00	12.00	20.00	23.00	19.00	10.00		15.29
SR 5	Breakheart Bridge				23.00	19.00	16.50	7.00	2.00	13.50
SR 6	Route 1	12.00	10.00	12.00	24.00	25.00	21.00	10.00	5.00	14.88
SR 7	Prankers Pond	9.00	13.00	17.00	23.00	24.00	20.00	8.00		16.29
SR 8	Iron Works	10.00	13.00	11.00	22.00	21.00	19.00	10.50	5.00	13.94
SR 9	Old RR Bridge			13.00						13.00
SR10	Boston St.	16.00	12.00	14.50	24.00					16.63
SR11	Ballard St.		15.00	17.00	26.00	27.00	21.00			21.20
SRT2	Mill River & Farm	12.00	12.00	13.00	17.00	25.00	18.00	9.00		15.14
SRT3	Mill River @ Town Brook	1.00			20.00					10.50
SRT4	Shute Brook	14.00	9.00	13.00		23.00	19.00	10.00	9.00	13.86
SRT6	Strawberry Br.	13.00		18.00		26.50	23.00			20.13
SRT8	Pt. Of Pines	13.00	12.00	18.00	18.00	23.00	18.00	11.00		16.14
SRT9	Trifone Brook	16.50	16.25	14.25	20.75	26.00	22.00	13.00	10.00	17.34
SRT10	Town Line Brook @ Rt. 1	12.00								12.00
SRT11	vn Line Brook @ Cemete	15.00	11.00	13.00	15.00	25.50	20.00	15.00		16.36

2001 Sampling Season

Site #		May	June	July	August	Sept.	Oct.	Nov.	Avg.
	Monthly Average	16.9	21.6	21.6	19.8	15.6	12.6	9.2	16.8
SR 2	L. Quannapowitt	19.0	27.5	28.0					24.8
SR 3	Dam @ Colonial	23.0					10.5	5.0	12.8
SR 4	Water Street	20.0	24.0		23.0	14.0	10.0		18.2
SR 5	Breakheart Bridge	13.5	0.0	21.0	0.0		13.0	7.0	9.1
SR 6	Route 1	14.0	25.0	20.0	21.0	15.0	9.5	15.0	17.1
SR 7	Prankers Pond	16.0	21.0	21.0	22.0	16.0	14.0		18.3
SR 8	Iron Works	13.5	23.0	20.0	22.8	14.0	12.0	11.0	16.6
SR 9	Old RR Bridge	17.0			24.0		13.0		18.0
SR10	Boston St.	17.5	25.0		24.0			8.5	18.8
SRT2	Mill River	16.0	21.0	20.0	22.0	17.5	9.0	14.0	17.1
SRT4	Shute Brook	14.0	19.0	19.0		15.0	15.0		16.4
SRT6	Strawberry Br.	15.0	24.0	24.0					21.0
SRT8	Pt. Of Pines	20.0							20.0
SRT9	Trifone Brook	18.8	28.0			18.0	21.0	8.0	18.8
SRT10	Town Line Brook - Rt 1						11.5	5.0	8.3
SRT11	TLB - Cemetary						16.5		16.5

2000 Sampling Season

Site #		June	July	August	Sept.	Oct.	Nov.	Dec.	Avg.
	Monthly Average	20.5	20.2	19.2	17.4	13.8	5.4	5.0	14.5
SR 3	Dam @ Colonial	26.0	24.0	21.0	18.0	12.5	5.5		17.8
SR 4A	Water Street	24.0	20.0	20.0	15.0	14.0	5.0		16.3
SR 6	Route 1	20.0	20.0	19.0	25.0	15.0	5.0	3.0	15.3
SR 7	Prankers Pond	18.0	19.0	15.0	14.0	13.5	0.0		13.3
SR 8	Iron Works	18.0	18.5	17.0	17.0	13.5	6.0	6.0	13.7
SR 9	RR Bridge/Hamilton St.	26.0	20.0	22.5	18.0	16.0			20.5
SR10	Boston St.			22.0	19.0				20.5
SR11	Ballard Street	18.0		20.0		14.0			17.3
SRT2	Mill River	18.5	19.0	17.0	14.0	14.0	6.0	6.0	13.5
SRT4	Shute Brook	18.0	18.0	17.0	18.0	11.0	8.0		15.0
SRT6	Strawberry Br.	20.0	21.5	19.0	18.0				19.6
SRT8	Pt. Of Pines	19.0	21.8	20.5	15.5	14.0	7.5		16.4

Saugus River Watershed
Water Temperatures
1998-2002

1999 Sampling Season

Site #		June	July	August	Sept	Oct.	Nov.	Dec.	Avg.
	Monthly Average	19.1	23.8	20.8	16.7	13.3	9.1	2.3	15.0
SR 2	L. Quannapowitt	20.0			20.5	13.0			17.8
SR 3	Dam @ Colonial	23.0	30.0	25.0		14.0	10.0	2.5	17.4
SR 4	Camp Nihan Bridge	14.0	20.0		14.0	11.5	6.0		13.1
SR 5	Breakheart Mill	22.5	18.0	22.0	16.0	11.0	4.5		15.7
SR 6	Route 1	16.0	25.0	24.0	15.0	13.0	10.0	1.0	14.9
SR 7	Prankers Pond	17.0	23.5	20.0	14.0	12.0	9.0	2.0	13.9
SR 8	Iron Works	17.0	23.0	20.0	16.0	14.5	10.0	2.5	14.7
SR 9	RR Bridge/Hamilton St.	22.0	28.0	22.0	18.5	11.0	12.0		18.9
SR11	Ballard Street	18.8	21.0	17.0	17.0	19.0	8.5		16.9
SRT2	Mill River	18.0	23.5	20.0	15.0	12.5	10.0	2.0	14.4
SRT4	Shute Brook	18.0		19.0		14.0	11.0	4.0	13.2
SRT6	Strawberry Br.	22.0	30.0	22.0	21.0	16.0			22.2
SRT8	Pt. Of Pines	19.5	20.0	18.0	17.0	12.0	9.0		15.9

1998 Sampling Season

Site #		June	July	August	Sept.	Oct.	Nov.	Dec.	Avg.
	Monthly Average	19.0	19.8	21.1	19.7	14.4	7.4	5.2	15.2
SR 2	L. Quannapowitt	22.0		24.5		14.0	6.0	6.7	14.6
SR 3	Dam @ Colonial	20.0		23.5	20.5	14.5	6.5	2.5	14.6
SR 4	Camp Nihan Bridge	17.5	16.0	20.0		14.0	5.0		14.5
SR 6	Route 1	18.0	20.0	22.0	20.0	15.0	8.0	4.0	15.3
SR 7	Prankers Pond	11.0	13.0		10.0	14.0	0.0	0.0	8.0
SR 8	Iron Works	19.0	21.5	18.0		12.0	9.0	5.0	14.1
SR 9	RR Bridge/Hamilton St.	20.0		24.0	27.0	16.0	8.0	7.3	17.1
SR10	Boston St.		23.5	23.0	22.5	15.0	8.0	7.5	16.6
SR11	Ballard Street	25.0	23.5	19.5	17.5	16.0	10.0	8.0	17.1
SRT2	Mill River			19.5	18.0				18.8
SRT4	Shute Brook	16.0	18.0	18.0	18.5		10.0	6.0	14.4
SRT6	Strawberry Br.	24.0	25.0	23.0	25.0	15.0	10.0	9.5	18.8
SRT8	Pt. Of Pines	16.0	18.0	18.0	18.0	13.0	8.0	1.0	13.1

Saugus River Watershed
Water Quality Monitoring - Fecal Coliform
1998-2000

2000 Sampling Season

Site #		June	July	August	Sept.	Oct.
SR 2	L. Quannapowitt	160	300	700	1	100
SR 3	Dam @ Colonial	790	400	1	1	1
SR 4	Breakheart Bridge	890	2,300	100	1	1
SR 5	Breakheart Mill	1,080	2,700	200	100	1
SR 6	Route 1	850	2,300	100	400	1
SR 7	Prankers Pond	1,300	2,100	300	200	1
SR 8	Iron Works	1,130	2,300	400	200	1
SR10	Boston St.	1,290	5,300	800	100	1
SRT2	Mill River	860	3,400	300	100	1
SRT4	Shute Brook	99,999	2,900	1,400	1600	1
SRT6	Strawberry Br.	99,999	33,400	99,999	300	200
SRT8	Pt. Of Pines	800	100	100	1	1

1999 Sampling Season

Site #		June *	July	August	Sept	Oct.
SR 2	L. Quannapowitt	1	100	1	1000	1250
SR 3	Dam @ Colonial	1	400	300	100	680
SR 4	Breakheart Bridge	1	1	900	500	110
SR 5	Breakheart Mill	1	300	400	300	460
SR 6	Route 1	1	300	800	1900	220
SR 7	Prankers Pond	1	800	300	400	430
SR 8	Iron Works	1	100	1,300	1300	230
SR10	Boston St.	1	900	200	800	540
SRT2	Mill River	1	600	400	700	160
SRT4	Shute Brook	1	200	700	300	110
SRT6	Strawberry Br.	1	800	1,600	100	10
SRT8	Pt. Of Pines	1	400	400	1	1

1998 Sampling Season

Site #		June	July	August	Sept.	Oct.
SR 2	L. Quannapowitt	20	950	230	1	1,060
SR 3	Dam @ Colonial	99,999	10	20	130	1,420
SR 4	Breakheart Bridge	99,999	100	670	220	50
SR 5	Breakheart Mill	99,999	130	1	200	230
SR 6	Route 1	390	1,000	530	920	80
SR 7	Prankers Pond	99,999	720	380	60	620
SR 8	Iron Works	99,999	880	960	260	200
SR10	Boston St.	99,999	230	160	1,360	760
SRT2	Mill River	230	140	110	99,999	100
SRT4	Shute Brook	99,999	960	1,600	800	1
SRT6	Strawberry Br.	99,999	230	550	99,999	40
SRT8	Pt. Of Pines	99,999	140	90	20	20

* No sample was collected for June 1999
99,999 indicates too many to count

Water quality standard for swimming is 200
Water quality standard for boating is 1,000

2001 E. Coli Results

Site #		April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Geometric Mean
SR 2	L. Quannapowitt	19	580	250	130	2,500	2,500	2,500	500	190	432.69
SR 3	Dam @ Colonial	83	190	130	20	110	30	1	40	390	50.43
SR 4	Breakheart Bridge	47	1850	260	90	360	840	90	1	330	138.10
SR 6	Route 1	36	2,500	160	130	260	720	-	1	205	127.95
SR 7	Prankers Pond	50	600	180	270	500	420	10	30	180	136.58
SR 8	Iron Works	39	1400	190	230	460	510	140	30	220	200.23
SR10	Boston St.	159	2,500	2,500	2,500	520	2,500	10	200	1170	581.12
SRT2	Mill River	166	2,500	280	110	170	330	930	100	530	320.16
SRT4	Shute Brook	111	850	2,500	2,500	1440	1400	220	50	700	593.62
SRT6	Strawberry Br.	52	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	1,625.77
SRT8	Pt. of Pines	24	1700	50	50	80	180	10	2,500	70	111.06
SRT9	Trifone Brook	2,500	2,500	2,500	2,500	2,500	2,500	220	240	2,500	1,470.89
SRT10	Town Line Brook/Rte 1	-	-	210	150	120	1290	20	30	2,500	184.63
SRT11	TLB/Cemetery	-	-	2,500	1970	2,500	2,500	90	120	150	651.59

U.S. EPA water quality criteria for swimming is 236 E. Coli/100ml

U.S. EPA water quality criteria for boating is 576 E. Coli/100ml

A geometric mean of 126 E. Coli or lower is needed to meet the U.S. EPA water quality criteria for swimming.

*The geometric mean was calculated for each site over the sampling period, April through December.

* Results shown as 2,500 were too numerous to count according to the available sampling procedures.

Saugus River Watershed
Water Quality Monitoring
2002 E. Coli Results

Site #		April 4/25/2002	May 5/23/2002	June 6/1/2002	July 7/18/2002	August 8/28/2002	September 9/25/2002	October 10/23/2002	Geometric Mean
SR 2	L. Quannapowitt / River side	200	640	-	140	120	100	2,500	285.15
SR 3	Dam @ Colonial	40	20	-	0	10	60	40	28.62
SR 4	Breakheart Bridge	130	360	-	250	140	960	80	223.84
SR 6	Route 1	40	120	-	230	290	840	250	201.65
SR 7	Prankers Pond	80	160	-	190	190	600	1,490	272.90
SR 8	Iron Works	70	240	-	2,170	240	380	740	367.42
SR10	Boston St.	35	350	-	160	1,020	900	550	315.68
SRT2	Mill River	200	360	-	390	330	1,500	170	364.96
SRT3	Mill River @ Town Brook	110	420	-	1,510	690	280	2,500	568.32
SRT4	Shute Brook	170	460	-	2,500	2,500	1,210	2,500	1,067.34
SRT6	Strawberry Br.	400	2,500	-	1,680	2,500	2,500	2,500	1,723.94
SRT8	Pt. Of Pines	20	260	-	45	2,500	90	-	139.41
SRT9	Trifone Brook (Town Line Brook)	260	2,500	-	2,500	1,520	1,560	2,500	1,458.68
SRT10	Town Line Brook/Rte 1	10	10	-	110	630	100	340	78.59
SRT11	Town Line Brook/Cemetery	50	80	-	660	470	2,500	2,500	444.90
SRT12	Flax Pond	-	-	-	50	180	340	210	159.22

U.S. EPA water quality criteria for swimming is 236 E. Coli/100ml

U.S. EPA water quality criteria for boating is 576 E. Coli/100ml

A geometric mean of 126 E. Coli or lower is needed to meet the U.S. EPA water quality criteria for swimming.

*Bacteria samples were not collected in June.

*The geometric mean was calculated for each site over the sampling period, April through October.

* Results shown as 2,500 were too numerous to count according to the available sampling procedures.