



## **Sheepsct Valley Conservation Association Water Quality Monitoring Program 2002 By Peter Abello, Program Coordinator**

### **2002 Program Overview**

The 9<sup>th</sup> year of the SVCA's water quality monitoring program ended October 8, 2002. The season began in May with much rainier conditions than recorded the previous year. As a result, drought conditions in the Sheepsct Watershed began to subside. Deeper water levels in the Sheepsct and its tributaries resulted in lower temperatures, higher flow rates, and overall better water quality in 2002.

This was the second season during which all sampling stations were managed under a Quality Assurance Project Plan (QAPP). This standardized our monitoring methods and added new requirements, such as: collecting samples at mid-depth in the water column, routinely sending data to the program coordinator, and adding a step to the dissolved oxygen methodology. Following a QAPP has given our testing procedures and data collection more validity.

Forty-two volunteers helped monitor the health of the Sheepsct River in 2002. In appreciation of their efforts, the water quality committee held a dinner for all volunteers at the King's Mills Union Hall in Whitefield on November 16. Over 40 volunteers and their families attended this evening of music, fun, and food. Local musicians Joe Barth, Doreen Conboy, Dave Jordan, and Jim Loney entertained the crowd with their great bluegrass music. Local businesses and dedicated SVCA volunteers donated food and drinks.

2002 also marked the completion of an analysis of the SVCA's water quality data from 1994-2001. A task force, including representatives from the Maine Department of Environmental Protection, Atlantic Salmon Commission, Sheepsct Watershed Council, and the SVCA convened to analyze the data and develop strategies for improving the health of the Sheepsct. (see enclosed "Analysis summary of Water Quality Monitoring Data 1994-2001")

### **Key Personnel in the SVCA's Water Quality Monitoring Program**

The SVCA's water quality monitoring program is a largely a volunteer-led effort. Board members Anneliese and Alex Pugh serve as co-chairs of the program. Alex and Anneliese, with direction from Program Coordinator Peter Abello, plan program logistics, recruit volunteers and direct QAPP protocols. Alex, a groundwater specialist with the DEP, and Anneliese, a biologist, bring their scientific expertise to the program. Other advisors to the program include:

Mark Whiting, Maine Department of Environmental Protection  
Dave Courtemarch, Maine Department of Environmental Protection  
Melissa Halsted, Sheepsct River Watershed Council

## **Data Summary**

Beginning on page 3, water quality data collected on the Sheepscot River from 1994-2002 is listed. Site numbers (e.g. **DY001-E**) in **bold** are currently active sites, meaning that these sites were monitored in 2002. Values in **bold** are in violation of the following standards:

### **For all sites:**

- No less than 7.0 mg/l dissolved oxygen concentration
- Number of days a particular site recorded below 7.0 mg/l per the number of days sampled during the season (e.g. 5/11)
- Average water temperatures (all temperature readings on a given site divided by the number of days collected)

### **For fresh water sites:**

- No greater than 427 Escheria Coliform bacteria in a single 100 ml sample
- A geometric mean (average of bacteria readings through a season for a site, removing the largest and smallest value) of no greater than 64 Escheria Coliform bacteria.

### **For sites down river from the head-of-tide (salt water sites):**

- Number of days the site recorded an Enterococci bacteria reading greater than 8.
- A geometric mean of greater than 54 Enterococci bacteria.

For the past two years, the Sheepscot Valley Conservation Association has contracted with the Knox-Lincoln Soil and Water Conservation District to coordinate this water quality monitoring program. The SVCA will resume coordination in 2003. Without the dedicated work of over 40 volunteers, this watershed-wide monitoring program would not exist. Again, thank you to those who helped in 2002!

Peter Abello  
Program Coordinator  
Knox-Lincoln County Soil and Water Conservation District

# Sheepscoot River Water Quality Data 1994-2002

**Notes:**

These data have been summarized but not yet analyzed. They should be considered as preliminary results until further analysis has been completed.

All violations of State of Maine Water Quality Standards for the Sheepscoot Drainage in the data collected are in **BOLD**. The water quality classifications of the Sheepscoot are as follows; Route 17 – Sheepscoot Village and the West Branch are Class AA, there are no specified standards for AA waters. Class AA is the highest classification and sections of river that have this designation are “Outstanding natural resources and which should be preserved because of their ecological, social, scenic or recreational importance.” For comparison purposes the Class B Standards have been used on data collected in this section of the river in this report.

The Mainstem of the Sheepscoot River from its headwaters in Montville to the Route 17 bridge in Whitefield and all tributaries are Class B. The standards for Class B are as follows:

Dissolved Oxygen: 7.0 mg/l  
 E Coli: 64 geometric mean 427 instantaneous

Estuarine waters of the Sheepscoot are Class SA. The standards for SA waters are as follows:

Dissolved Oxygen 7.0 mg/l  
 Enterococci: 8 geometric mean 54 instantaneous  
 There are no standards for fecal coliform bacteria.

## Estuary and Tributaries

### DY001-E

Dyer River. At mouth, below bridge in Sheepscoot Village. By boat. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994				<b>9 (9)</b>	
1995	18.4			<b>4 (8)</b>	
1996	48.3	<b>36.0</b>	<b>4 (11)</b>	<b>8 (11)</b>	
1997	9.9	3.5	0 (10)	<b>5 (12)</b>	
1998	22.3	<b>20.6</b>	<b>4 (11)</b>	<b>4 (11)</b>	
1999	20.6	<b>19.2</b>	<b>2 (12)</b>	<b>4 (12)</b>	
2000	42.0	<b>115.5</b>	<b>8 (10)</b>	0 (10)	
2001	14.9	<b>27.4</b>	<b>3 (11)</b>	<b>3 (12)</b>	
2002	19.0	<b>25.4</b>	<b>4 (11)</b>	<b>1 (11)</b>	<b>16.1</b>

**DY002-E**

Dyer River, Newcastle. Behind Hoffman's House on North Newcastle Road. Class SA.

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
2002	31.5	<b>38.9</b>	5 (12)	<b>7 (11)</b>	<b>16.0</b>

**S001-E**

Sheepscot River. Downriver from Sheepscot Village Bridge. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994				<b>8 (8)</b>	
1995	18.1			<b>5 (9)</b>	
1996	29.4	<b>14.8</b>	<b>1 (11)</b>	<b>6 (12)</b>	
1997	8.3	4.6	0 (11)	<b>1 (11)</b>	
1998	12.9	7.7	<b>2 (8)</b>	<b>2 (12)</b>	
1999	17.3	<b>10.1</b>	<b>1 (12)</b>	<b>1 (12)</b>	
2000	27.5	<b>37.3</b>	<b>3 (10)</b>	0 (10)	
2001	13.5	<b>17.4</b>	0 (11)	<b>5 (11)</b>	
2002	23.9	<b>38.3</b>	3 (11)	<b>1 (11)</b>	<b>16.0</b>

**CPBK-F**

Culvert Pond Brook. 100 yards below Culvert Pond, river right. Class B

<i>YEAR</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1998	23.7 (12)	0	<b>2 (12)</b>	
1999	<b>238.01 (12)</b>	<b>4</b>	<b>2 (12)</b>	
2000	26.6 (12)	0	0 (12)	
2001	37.3	<b>1</b>	<b>4 (12)</b>	
2002	37.2	<b>1</b>	<b>2 (12)</b>	<b>16.5</b>

**S002-E**

Sheepscot River. Wood Easement. By Boat. SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	25.4			
1995	17.7			
1996	30.0	<b>12.3</b>	<b>2 (12)</b>	
1997	6.7	3.3	0 (11)	

S003-E  
Sheepsct River. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	44.5 (9)			
1995	31.9 (12)	<b>32.3 (11)</b>	<b>6 (11)</b>	
1996	51.2 (11)	<b>32.3 (11)</b>	<b>6 (11)</b>	

S004-E  
Sheepsct River. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	59.6 (10)			
1995	49.7 (11)			
1996	41.1 (10)	<b>41.6 (8)</b>	<b>3 (8)</b>	

S005-E  
Sheepsct River. Under Puddledock Bridge. River right. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	60.4 (10)			0 (10)	
1995	44.0 (11)			0 (10)	
1996	32.4 (10)	<b>44.4 (10)</b>	<b>4 (10)</b>	0 (10)	
1997	42.0 (11)	<b>79.6 (11)</b>	<b>7 (11)</b>	0 (9)	
1998	32.4 (10)	<b>44.4 (10)</b>	<b>4 (10)</b>	0 (2)	
1999	161.0 (12)	<b>223.0 (12)</b>	<b>10 (12)</b>	<b>10 (12)</b>	
2000	118.7 (7)	<b>511.1 (7)</b>	<b>5 (7)</b>	0 (12)	
2001	126.1 (12)	<b>200.8 (11)</b>	<b>10 (11)</b>	<b>3 (11)</b>	
2002	53.7	<b>116.5 (11)</b>	<b>8 (11)</b>	<b>5 (11)</b>	<b>16.9</b>

S006-E  
Sheepsct River Below mouth of Trout Brook. River Right. Class SA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTEROCOCCI GEO MEAN</i>	<i>ENTEROCOCCI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	84.9 (10)				
1995	59 (11)				
1996	79.2 (12)	<b>69.8 (12)</b>	<b>7 (12)</b>		
1997	39.0 (11)	<b>99.3 (11)</b>	<b>7 (11)</b>		
1998	43.4 (11)	<b>114.8 (9)</b>	<b>5 (9)</b>		
1999	268.6 (11)	<b>155.2 (11)</b>	<b>7 (11)</b>		
2001	126.1 (10)	<b>217.5 (9)</b>	<b>8 (10)</b>	1 (11)	
2002	48.0 (12)	<b>176.1 (12)</b>	<b>9 (12)</b>	1 (12)	<b>16.2</b>

TRBK001-F

Trout Brook. At culvert on David Swetland's Road. Class B.

<i>YEAR</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1997	<b>99.6 (11)</b>	<b>2</b>	<b>9 (12)</b>
1998	<b>95.6 (12)</b>	<b>1</b>	<b>2 (12)</b>
2000	40 (1)	0	<b>1 (11)</b>

TRBK002-F

Trout Brook. Downstream from West Alna Road bridge. Class B

<i>YEAR</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	<b>77.3 (12)</b>	<b>2</b>	<b>8 (12)</b>	
2000	<b>95.2 (12)</b>	<b>2</b>	<b>2 (12)</b>	
2001	<b>72.8 (11)</b>	<b>0</b>	<b>8 (12)</b>	
2002	42.1	<b>1</b>	<b>6 (11)</b>	<b>15.6</b>

S007-E

Sheepscot River. Downriver from Head Tide Road Bridge; behind SVCA Office; river left. Class AA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTERO- COCCI GEO MEAN</i>	<i>ENTERO DAYS IN VIOLATION</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATIO N</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	80.1 (8)					<b>1 (10)</b>	
1995	32.3 (12)					<b>2 (12)</b>	
1996	21.5 (12)	<b>88.7 (12)</b>	<b>7 (12)</b>			0 (12)	
1997	26.0 (12)	<b>138.8 (12)</b>	<b>9 (12)</b>			0 (12)	
1998	58.2 (12)	<b>337.1 (11)</b>	<b>9 (12)</b>			<b>1 (12)</b>	
1999	111 (11)	<b>359 (11)</b>	<b>8 (11)</b>	59 (6)	0	0 (7)	
2000	113.8 (9)	<b>564 (9)</b>	<b>8 (9)</b>			0 (12)	
2001	406.2 (2)	<b>82.5 (2)</b>	<b>1 (2)</b>	<b>86.2 (10)</b>	<b>1</b>	<b>1 (12)</b>	
2002	68.2 (11)	<b>241.6 (11)</b>	<b>9 (11)</b>	--	--	<b>0 (12)</b>	<b>13.8</b>

# Sheepscoot Mainstem and Tributaries

S008-F

Sheepscoot River. Above Head Tide Dam. River right. Class AA

<i>YEAR</i>	<i>FECAL COLIFORM GEO MEAN</i>	<i>ENTERO-COCCI GEO MEAN</i>	<i>ENTERO DAYS IN VIOLATION</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994				31.2 (6)	0	<b>1 (9)</b>
1995				22.2 (12)	0	<b>1 (12)</b>
1996	27.1 (11)					0 (12)
1997				24.4 (11)		0 (11)
1998				<b>41.8 (12)</b>		0 (12)
1999	24 (6)	<b>226 (6)</b>	<b>4 (6)</b>	<b>35 (11)</b>	0	0 (4)
2000				<b>41.5 (7)</b>	0	0 (12)

S008.5-F

Sheepscoot River. Below outlet of Spring Brook, Alna. Class AA

<i>YEAR</i>	<i>E.COLI GEO MEAN</i>	<i>E.COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
2001	37.8	0	0	
2002	23.9	0	0 (12)	<b>15.8</b>

S009-F

Sheepscoot River. Above Long Rapids. Stenneck's property. River right Class AA

<i>YEAR</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	<b>66 (9)</b>	0	<b>4 (9)</b>	
1995	29 (12)	0	<b>3 (12)</b>	
1996	32.6 (10)	0	0 (9)	
1997	32.6 (11)	0	0 (2)	
1998	<b>80.7 (11)</b>	<b>1</b>	<b>2 (6)</b>	
1999	55 (12)	0	<b>2 (11)</b>	
2000	57.6 (9)	<b>1</b>		
2001	<b>66.0</b>	<b>1</b>	<b>1 (11)</b>	
2002	33.7	0	<b>1 (9)</b>	<b>16.6</b>

**WEBK001-F**

Weaver Brook, downstream of Route 218 bridge on Ann Nyren's property. Class B

<i>YEAR</i>	<i>E COLI GEO MEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1998	30.8 (12)	<b>1</b>	<b>9 (12)</b>	
1999	25.2 (9)	<b>1</b>	<b>2 (12)</b>	
2000	26.7 (9)	<b>1</b>	0 (8)	
2001	31.6 (5)	<b>0</b>	<b>3 (11)</b>	
2002	17.2 (12)	<b>0</b>	<b>2 (12)</b>	<b>12.7</b>

**S010-F**

Sheepscot River. King's Mills, below bridge. River Left. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	41 (10)	0	0 (10)	
1995	21.8 (12)	0	0 (11)	
1996	34.1 (11)	0	<b>1 (11)</b>	
1997	25.5 (12)	0	0 (12)	
1998	58.7 (10)	<b>1</b>	0 (10)	
1999	<b>79.5 (11)</b>	0	<b>1 (11)</b>	
2000	28.1 (9)	0	0 (8)	
2001	35.4 (12)	0	0 (11)	
2002	25.2 (9)	0	2 (11)	<b>21.9</b>

**CHABK001-F**

Chamberlain Brook, King's Mills. Below route 194 Bridge. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1997	<b>85.3 (8)</b>	<b>2</b>		
1998	<b>157.5 (12)</b>	<b>3</b>	<b>11 (12)</b>	
1999	<b>165 (12)</b>	<b>5</b>	<b>10 (12)</b>	
2000	<b>113.2 (9)</b>	<b>1</b>	<b>6 (8)</b>	
2001	<b>84.6 (12)</b>	<b>1</b>	<b>11(12)</b>	
2002	49.1 (12)	<b>1</b>	<b>9 (12)</b>	<b>16.5</b>

**CHABK002-F**

Chamberlain Brook, King's Mills. Below culvert at dirt road crossing. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1998	<b>281.2 (11)</b>	<b>5</b>	<b>10 (12)</b>
2000	<b>65.5 (9)</b>	<b>1</b>	<b>2 (8)</b>

**CHABK003-F**

Chamberlain Brook (south fork), King's Mills. Downstream of the northern Route 194 crossing and above confluence with mainstem of Chamberlain Brook. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	53.4 (12)	<b>1</b>	<b>10 (12)</b>	
2001	<b>781.8 (6)</b>	<b>4 (6)</b>	<b>2 (5)</b>	
2002	<b>139.2 (12)</b>	<b>4 (12)</b>	<b>8 (12)</b>	<b>14.8</b>

CABK  
Carleton Brook, Whitefield. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1997	<b>64.2 (12)</b>	<b>1</b>	<b>8 (12)</b>
1998	<b>64.2 (12)</b>	0	<b>10 (12)</b>

S011-F  
Sheepscoot River. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	29.6 (9)	0	<b>10 (10)</b>
1995	16.9 (11)	0	0 (12)
1996	<b>34.8 (12)</b>	0	<b>1 (12)</b>

S012-F  
Sheepscoot River. King's Mills, below bridge. River Left. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	28.9 (9)	0	0 (9)
1995	18.9 (11)	0	<b>1 (11)</b>
1996	22.0 (12)	0	0 (11)

S013-F  
Sheepscoot River. North Whitefield. Below Route 126. River right. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	28.5 (9)	0	<b>3 (9)</b>	
1995	33.5 (11)	<b>1</b>	0 (12)	
1996	49.5 (5)	<b>1</b>		
1997	41.9 (10)	<b>1</b>	<b>2 (8)</b>	
1998	29.5 (8)	0	<b>3 (8)</b>	
1999	<b>85.1 (11)</b>	<b>1</b>	0 (5)	
2000	54.5 (12)	<b>1</b>		
2001	33.0 (11)	0	<b>4 (11)</b>	
2002	44.0 (11)	0	2 (12)	<b>17.8</b>

FB001-F  
Finn Brook, at the mouth above route 126, Whitefield. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	<b>123.2 (11)</b>	<b>3</b>	0 (5)	
2000	36.9 (9)	<b>1</b>	0 (12)	
2001	<b>82.3 (12)</b>	0	<b>3 (12)</b>	
2002	<b>101.5</b>	<b>3</b>	0 (12)	<b>14.3</b>

**S013.5-F**

Sheepscoot River. Downriver from Cooper's Mills Dam; river left. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	33.2 (11)	1	0 (5)	
2000	13.3 (12)	0	1 (12)	
2001	25.7 (11)	<b>1</b>	<b>2 (10)</b>	
2002	19.5 (10)	0	<b>5 (12)</b>	<b>18.0</b>

**S014-F**

Sheepscoot River. Somerville. Below Somerville Road Bridge. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1995	38.2 (12)	0	<b>2 (12)</b>	
1996	43.6 (12)	0	<b>3 (12)</b>	
1997	36.4 (12)	0	<b>2 (12)</b>	
1998	48.3 (11)	0	<b>2 (9)</b>	
1999	51.4 (12)	<b>2</b>	<b>2 (12)</b>	
2000	24.9 (12)	0	0 (12)	
2001	19.5 (12)	0	0 (12)	
2002	14.7 (12)	0	<b>1 (12)</b>	<b>16.1</b>

**S014.5-F**

Sheepscoot River in Palermo. Downriver of Hatchery Discharge, upriver of Gore Road Bridge. River left. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	6.6 (10)	0	0 (12)	
2000	14.2 (11)	0	0 (11)	
2001	13.1 (6)	0	0 (7)	
2002	10.8 (9)	0	0 (9)	<b>12.9</b>

**S015-F**

Sheepscot River in Liberty. Upriver of Sand Hill Road Bridge. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1997	43.5 (12)	0	0 (12)	
1998	45.2 (12)	<b>1</b>	<b>2 (9)</b>	
1999	25.7 (10)	0	<b>2 (9)</b>	
2000	<b>152.7 (12)</b>	<b>4 (12)</b>	<b>1 (12)</b>	
2001	<b>295.6 (10)</b>	<b>4 (10)</b>	<b>7 (10)</b>	
2002	51.2 (12)	0	<b>3 (12)</b>	<b>15.6</b>

**West Branch and Tributaries****WB001-F**

West Branch Sheepscot River. Below Howe Road Bridge, Whitefield. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	19.9 (7)	0	0 (7)	
1995	17.7 (12)	0	<b>1 (12)</b>	
1996	36.2 (12)	0	<b>4 (12)</b>	
1997	23.0 (10)	0	0 (10)	
1998	50.3 (10)	<b>1</b>	0(10)	
1999	30.3 (12)	<b>1</b>	0 (12)	
2000	28.9 (12)	<b>1</b>	0 (12)	
2001	16.2 (10)	0	0 (10)	
2002	23.2 (12)	0	0 (12)	15.5

**WB001.5-F**

West Branch Sheepscot River. Below Maxcy's Mill Road Bridge, Windsor. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1996	53.9 (12)	0	<b>6 (11)</b>	
1997	11.9 (12)	0	<b>12 (12)</b>	
1998	46.5 (10)	0	<b>5 (9)</b>	
1999	<b>73.3 (10)</b>	<b>2</b>	<b>3 (9)</b>	
2000	41.4 (10)	0	0 (10)	
2001	36.3 (10)	<b>1</b>	<b>3 (10)</b>	
2002	21.7 (11)	0	<b>5 (9)</b>	<b>18.6</b>

**WB002-F**

West Branch Sheepscot River. Above Route 105 Bridge, Whitefield. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1994	48.9 (8)	0	<b>8 (10)</b>	
1995	30.8 (11)	<b>1</b>	<b>5 (10)</b>	
1996	40.4 (12)	<b>1</b>	<b>5 (12)</b>	
1997	19.9 (12)	0	No data	
1998	40.3 (12)	<b>1</b>	<b>7 (12)</b>	
1999	49.9 (12)	<b>1</b>	<b>8 (12)</b>	
2000	<b>64.8 (12)</b>	0	<b>4 (12)</b>	
2001	51.7 (12)	<b>1</b>	<b>5 (12)</b>	
2002	33.0 (12)	0	<b>7 (12)</b>	<b>17.2</b>

**CHBK001-F**

Choate Brook. Above Sampson Road bridge just north of Route 105, Windsor. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1997	42.1 (12)	0	<b>7 (12)</b>	
1998	<b>131.6 (11)</b>	0	<b>2 (4)</b>	
1999	<b>108.9 (9)</b>	<b>1</b>	<b>4 (8)</b>	
2000	63.3 (12)	<b>1</b>	<b>7 (12)</b>	
2001	<b>104.2 (12)</b>	<b>1</b>	<b>11 (12)</b>	
2002	<b>91.0 (11)</b>	<b>2</b>	<b>8 (12)</b>	<b>15.0</b>

**WB003-F**

West Branch Sheepscot River. Below Choate Road Bridge, Whitefield. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1994	55.3 (10)	0	<b>9 (10)</b>
1995	42.8 (9)	0	<b>8 (12)</b>
1996	55.7 (12)	0	<b>5 (12)</b>

**DB001-F**

Dearborn Brook, above Route 32 bridge, Windsor. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1999	<b>168.3 (10)</b>	<b>2</b>	<b>10 (10)</b>	
2000	<b>69.7 (11)</b>	<b>1</b>	<b>8 (11)</b>	
2001	<b>104.2 (11)</b>	0	<b>10 (11)</b>	
2002	<b>89.0 (12)</b>	<b>2</b>	<b>8 (12)</b>	<b>15.9</b>

**DB002-F**

Dearborn Brook, below Reed Road culvert, Windsor. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
2000	42.3 (11)	0	<b>1 (11)</b>	
2001	22.6 (7)	0		
2002	33.6	0	<b>5 (10)</b>	<b>13.3</b>

**HEBK001-F**

Hewitt Brook. Below Shuman Road, just above confluence with West Branch, Windsor. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1997	44.9 (8)	0	No data	
1998	<b>68.8 (12)</b>	<b>1</b>	0 (12)	
1999	<b>93.3 (12)</b>	<b>2</b>	<b>1 (12)</b>	
2000	<b>65.2 (12)</b>	<b>2</b>	0 (12)	
2001	33.5 (12)	<b>1</b>	<b>2 (12)</b>	
2002	25.5 (11)	0	<b>4 (12)</b>	<b>15.8</b>

**WB004-F**

West Branch Sheepscot River. Below Weeks Mills Bridge, China. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1995	<b>120.3 (12)</b>	<b>1</b>	<b>2 (12)</b>	
1996	<b>79.0 (12)</b>	0	<b>1 (12)</b>	
1997	<b>107.9 (12)</b>	<b>2</b>	<b>1 (12)</b>	
1998	<b>129.8 (12)</b>	<b>2</b>	<b>1 (2)</b>	
1999	<b>87.3 (12)</b>	<b>1</b>	<b>3 (11)</b>	
2000	<b>161.3 (12)</b>	<b>3</b>	0 (11)	
2001	<b>284.4 (11)</b>	<b>3</b>	<b>3 (11)</b>	
2002	<b>140.3 (12)</b>	<b>3</b>	<b>1 (12)</b>	<b>15.3</b>

**WB004.5-F**

West Branch Sheepscot River. Above old narrow gauge railroad crossing, China. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
2000	<b>99.2 (12)</b>	<b>3</b>	<b>2 (12)</b>	
2001	44.1 (11)	0	<b>2 (11)</b>	
2002	24.5 (12)	0	<b>6 (12)</b>	<b>15.6</b>

**MEBK001-F**

Meadow Brook, below old railroad grade on Oliver Dairy Farm, Weeks Mills. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1997	<b>104.2 (12)</b>	<b>3</b>	<b>6 (12)</b>	
1998	<b>279.0 (9)</b>	<b>2</b>	<b>2 (2)</b>	
1999	<b>64.8 (12)</b>	<b>1</b>	<b>7 (10)</b>	
2000	<b>147.3 (12)</b>	<b>3</b>	0 (12)	
2001	<b>173.0 (11)</b>	<b>3</b>	<b>7 (10)</b>	
2002	61.0 (12)	<b>2</b>	<b>6 (11)</b>	<b>15.5</b>

**MEBK001.5-F**

Meadow Brook, above railroad grade and cattle access, Oliver Farm, Weeks Mills. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1999	55.5 (12)	0	<b>7 (10)</b>
2000	<b>94.9 (12)</b>	<b>1</b>	0 (12)

**MEBK001.75-F**

Meadow Brook. Upstream of snowmobile crossing, China. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
2001	16.0 (12)	0	<b>1 (12)</b>	
2002	21.1 (12)	0	<b>1 (12)</b>	<b>13.7</b>

**MEBK002-F**

Meadow Brook, north of Toby Road, China. Class B

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>
1998	33.6 (12)	0	<b>12 (12)</b>

**WB005-F**

West Branch Sheepscot River. Below Foot Bridge off of Water Street, Palermo. Class AA

<i>YEAR</i>	<i>E COLI GEOMEAN</i>	<i>E COLI DAYS IN VIOLATION</i>	<i>D.O. DAYS IN VIOLATION</i>	<i>AVERAGE WATER TEMP (°C)</i>
1995	23.4 (10)	0	<b>8 (12)</b>	
1996	7.7 (12)	0	<b>2 (12)</b>	
1997	21.5 (10)	0	<b>8 (12)</b>	
1998	<b>71.1 (11)</b>	<b>1</b>	<b>4 (11)</b>	
1999	55.6 (12)	<b>1</b>	<b>2 (12)</b>	
2000	51.7 (11)	<b>1</b>	<b>5 (11)</b>	
2001	<b>71.7 (12)</b>	0	<b>7 (12)</b>	
2002	32.0 (12)	0	<b>6 (12)</b>	<b>17.3</b>

